"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

WUNSCH, J

WUMSCH, J.

WUMSCH, J. New equipment for measuring steam purity in high-pressure boilers. p. 315.

Vol. 6, no. 7, July 1956
ENERGETIKA
TECHNOLOGY
Czechoslovakia

So: East European Accession, Vol. 6, No. 5, May 1957

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

WUNSCH, J.

The use of ferrous concrete widges in construction. p. 239. Vol. 19 No. 1/3, 1956. KOZLEMENEI. Budapest, Hungary.

SOURCE: East European List, (EEAL) Library of Congress Vol. 6, No. 1 January 1956.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

WUNSCH, J.

Treatment of feed water for highpressure boilers in the second Five-Year Plan.

P. 284, (Strojoelektrotechnicky Casopis) Vol. 8, no. 5, 1957, Praha, Czechoslovakia

SO: Monthly Index of East European Acessions (EEAI) Vol. 6, No. 11 November 1957

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

WUNSCH, J., inz.; KADLEC, V., inz.; BRODSKY, A., inz.

New method of removing oxygen from demineralized feed water and condensates in high-pressure electric power plants and heating plants. Energetika Cz 12 no.10:515-520 O '62.

1. Ceskomoravska-Kolben-Danek Dukla, Praha.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

KUNSCH, K.

Seismographic measurement of the effects of vibrations caused by the blasting of mud on the construction site of a dam across Templin Lake near Berlin.

P. 331. (ZELEZNICNI TECHNIKA.) (Praha, Czechoslovakia) Vol. 5, No. 12, Dec. 1957

SO: Monthly Index of East European Accession (EEAI) LC. Vol. 7, No. 5, 1958

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

~~Wunsch~~ L,

WUNSCH, L.

3318. Complexmetric titrations (chelatometry). XIII. The determination of scandium. L. Wunsch. (*Coll. Czech. Chem. Commun.*, 1955, 20 [5], 1107–1112).—Conditions for the direct and indirect complexmetric determination of Sc with EDTA (disodium salt), with Eriochrome black T as indicator, have been studied, and satisfactory results have been obtained. By masking with KCN and dimercaptopropanol, Sc can be determined in the presence of Zn, Cd, Ni, Co, Hg or Cu, or of small amounts of Pb, Bi or Fe. [This is a translation into German of a paper originally published in *Chem. Listy*, 1955, 49, 843.] N. E.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

Wunsch, L.

CZECHOSLOVAKIA/ Analytical Chemistry. General Problems. G-1

Abs Jour: Referat. Zhur.-Khimiya, No. 8, 1957, 27108.

Author : L. Wunsch.

Title : Complexometric Titration in Industrial Practice.

Orig Pub: Chem. prumysl, 1956, 6, No. 11, 456 - 459.

Abstract: Review. Bibliography with 31 titles.

Card 1/1

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

WUNSCH, L.

Application of ion exchangers in analytic inorganic chemistry.

P. 24 (Chemie, Vol. 9, no. 1, Apr. 1957, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2, February 1958

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

Wunsch, Ludek

CZECHOSLOVAKIA/Analytic Chemistry - General Topics. E-1

Abs Jour : Ref Zhur - Khimiya, No 10, 1958, 32143

Author : Ludek Wünsch
Inst :
Title : Combined Application of Complexometry (Chelatometry) and Ion Exchange Resins.

Orig Pub : Chem. listy, 1957, 51, No 2, 376-378; Sb. chekhosl. khim. rabot, 1957, 22, No 4, 1339-1341

Abstract : The selective separation of cations by their elution from a chromatographic column with complex producing reagents is very effective, but an analytic treatment of very dilute eluates is difficult. The new method consists in a selective elution of cations with titrated solutions of ethylene-diaminetetracetic acid or Hunt's reagent sometimes conbined with other complex forming reagents and in a reversed titration of the eluate by ordinary complexometric methods. A high selectivity in

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Abs Jour : Ref Zhur - Khimiya, No 10, 1958, 32143

respect of a determined cations or a cation group can be attained by using a corresponding eluent. The separation of Ca from Mg is presented as an example. At the separation of more complicated cation mixtures, the selective elution with complexones of different pH, or the cation elution with selective complex forming reagents is applied. The complex forming reagents are for example: triethanolamine (separation of Sc and Al), malic acid (separation of Sc from Ca, Mg, Ba, Sr and other cations), tiron (separation of Fe, Ti and Al from Ca and Mg) and cyanide.

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

WUNSCH, I.

Potentiometric determination of alkali reserves and carbonates in the fluids of the body. Coll Cz Chem 29 no.9:2252-2259 S '64.

1. Bezirksanstalt fur Volksgesundheit, Bezirkskrankenhaus, Usti nad Labem.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

WUNSCH, Ludek

Contribution to colorimetric micro-determination of iron in the blood plasma with the aid of α, α' - bipyridine. Cas.lek. cesk. 99 no.45:1416-1419 4 N '60.

1. Ustredni laborator KUNZ, Usti nad Labem, prednosta MUDr. Z. Kulenda.
(PYRIDINES pharmacol)
(IRON blood)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

KORANYI, Gyorgy, dr.; WUNSCH, Walter, Dr. ing.; OECHELHAUSER, Kurt; PUTNOKY, Janos; SOMHEGYI, Karoly; SZUMAN, Witold; VALY, Ferenc, dr.; DOBO, Laszlo; NAGY BIRO, Sandor; VIDA, Miklos; TOBAK, Lajos; MAKOLDI, Mihaly; NASZALYI, Laszlo; HUNEK, Emil

Technical and economic questions relating to gas utilization.
Ipari energia 3 no.1/2:9-14 Ja-F '62.

1. Fovarosi Gazmuvek muszaki igazgatoja (for Valy).

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

CZECHOSLOVAKIA

Z. WUNSCH, Psychiatry Clinic of Faculty of General Medicine of Charles University (Psychiatricka klinika fakulty vseobecneho lekarstvi Karlovy university) Prague.

"Some Models in Psychiatry."

Prague, Ceskoslovenska Psychiatrie, Vol 58, No 6, 1962; pp 371-375.

Abstract: Experimental models already implicitly contain built-in hypotheses, and can thus never be entirely objective. Their suitability depends on the closeness of the correspondence between the real situation and the hypothetical base of the model. Cybernetics and their applications are discussed in some detail from an abstract point of view. One Soviet and 1 German reference.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

*UNSCH, Zdenek

Cybernetics & its importance in psychiatry. Cesk. psychiat. 53 no.4: 262-272 Sept 72

1. Psychiatricka klinika KU v pruze.

(CYBERNETICS,
significance in psychiatry (Cs))
(PSYCHIATRY,
significance of cybernetics (Cz))

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

WUNSCH, Zdenek

Construction of a miniature electroshock apparatus. Cesk. psychiat. 54 no.3: 192-195 June 58.

1. Psychiatricka klinika KU v Praze.
(SHOCK THERAPY, ELECTRIC, apparatus & instruments
miniature appar., construction (Cz))

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

L 11372-66 SCTB DD

ACC NR: AP6030189 SOURCE CODE: CZ/0088/65/000/005/0461/0470

AUTHOR: Wunsch, Zdenek (Doctor) 34 B

ORG: Psychiatric Research Laboratory, FVL, UK, Prague (Vyzkumna laborator psychiatricka FVL UK)

TITLE: Remarks on the conception of biological autoorganization

SOURCE: Kybernetika, no. 5, 1965, 461-470

TOPIC TAGS: cybernetics, central nervous system, neuron

ABSTRACT: The method of the natural origin of complex cybernetical systems may be denoted as biological autoorganization (AO). From the present knowledge of biology it is possible to derive certain general characteristics of biological AO, which may be conceived as the autoregulation of structures formed by elements having some changing properties. It is therefore expedient to realize biological AO as processes of reproductive transformations of elements, eventually of different levels of complexity. The information necessary for the selection and autoregulation of structures (i.e., necessary to realize the resulting organization from elements having some fundamental properties in a given environment) may be substantially smaller than the information necessary to represent the resulting organization. Therefore, an important problem is the significance of the properties of the system's ele-

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ACC NR: AP6030189

ments and of their relation to the possible orderliness and autoregulation of the resulting structure. The conception of biological AO can be applied to some processes of the origin of the higher abilities of the central nervous system, because certain distinguishable states of this system -- generally of a more complex form than the states of a single neuron -- can be conceived as elements of the process of AO. Some interesting problems may be derived from the given conception (e.g., problems concerning the selection of relevant information by the central nervous system) and they can be studied on experimental models. [Based on author's Eng. abst.] [JPRS: 34,162]

SUB CODE: 06 / SUBM DATE: 14Apr65 / ORIG REF: 003 / OTH REF: 014

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APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

WUNSCHE, E.

Power factor compensation in electric arc furnaces. Elektrotechnik 19 no. 6:163-164 Je '64.

1. Ceskomoravska-Kolben-Danek Praha National Enterprise, Prague.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

REZKOVA-MOURALOVA, H., MUDr.; WUNSCHOVA, B., MUDr.

Improvement in medical care for mentally ill. Cesk. zdravot. 6 no.2: 81-84 Mar 58.

1. Ministerstvo zdravotnictvi - odbor lecebne preventivni pece.
(MENTAL DISORDERS, prev. & control
in Czech., improvement (Cz))

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

HAAS, L.; WUNSCHOVA, B.; CHODUROVA, A.

Psychosocial concept of suicide and delinquency. Cesk. psych. 60 no.6:375-382 N '64.

1. Psychiatricke oddeleni Ustav narodniho zdravi CNV v Praze 5 a 6.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

WURDITS, I.

HUNG.

Synthesis of isopropyl benzene — G. Zöllner, I. Wurdits, J. Marton, (Magyar Kémikusok Lapja — Vol. 9, No. 7, pp. 199—201, 1 fig., 1 tab.)

A continuous Friedel-Crafts synthesis of isopropyl benzene has been investigated and compared with a similar technology for the preparation of ethyl benzene as well as with other syntheses of isopropyl benzene. It could be ascertained that (1) the composition of the final product of the Friedel-Crafts propylation of benzene is determined by the redistribution of the di-alkyl benzene formed by direct alkylation, similarly to the synthesis of ethyl benzene. Temperature has only a slight influence on this redistribution and, consequently, upon the composition of the final product whereas the propylene-benzene mole ratio bears a considerable influence; (2) isopropyl benzene can be synthetized from propylene and benzene, and ethyl benzene from ethylene and benzene in the presence of $AlCl_3$ with the same technology and in an identical apparatus; (3) the most favourable conditions for the continuous process of synthesis of isopropyl benzene are the following: composition of the feed, 80% benzene and 20% di-isopropyl benzene, propylene-benzene mole ratio 0.47, temperature 100—102° C, the yield referred to both benzene and propylene is 95%. With the best sulphuric acid method a similar yield can only be achieved with a propylene-benzene mole ratio of 0.32. With the described Friedel-Crafts technology the regeneration and recirculation of benzene can be carried out more economically.

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

WURDITS, Imre

Industrial use of ketene. Kem tud kozl MTA 14 no.3:327-329 '60. (EEAI 10:9)

1. Szerves Vegyipari es Muanyagipari Kutato Intezet, Budapest.

(Ketene) (Acetic acid) (Anhydrides)
(Pyrolysis)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

WURFEL, J.

Heptogram in various stages of fetal life. Pat. polska 4 no.1:61-75 Jan-Mar 1953. (CIML 24:5)

1. Of the Third Internal Clinic (Head--Prof. J. Aleksandrowicz, M. D.) of Krakow Medical Academy.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

GACS, Janos, dr.; KEREKES, Erno, dr.; WURFER, Bela, dr.

On Wilson's disease (Hepatolenticular degeneration). Orv. hetil. 106 no.20:935-938 16 My'65.

1. Budapesti Orvostudomanyi Egyetem, III. Belklinika (igazgato: Gero, Sandor, dr.) es Orszagos Traumatologiai Intezet (igazgato: Szanto, Gyorgy, dr.).

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

WURM, Boleslav; CERNY, Zdenek, inz.; NOSEK, Bohuslav; FOLDINA, Josef; STURMA, Jan; ELIASEK, Jaroslav

Socialist pledge of organizers. Podnik organizace 17 no.2:54-56 F '63.

1. Ministerstvo vseobecneho strojirenstvi, organizacni stredisko 02 (for Wurm, Cerny and Nosek). 2. Tatra, n.p., Koprivnice (for Foldina). 3. Metalis, n.p., Nejdek (for Sturma). 4. Ceske zavody motocyklove, Strakonice (for Eliasek).

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

BRZOSKO, W.; NIZNIKOWSKA-MARKS, M. J.; WURM, Ch.

Endocardial fibroelastosis. Pediat. polska 31 no.4:373-388 Apr 56.

1. Z Kliniki Diagnostyki Chorob Dzieciecych w Warszawie Kierownik: prof. dr. med. Z. Lejmbach i z Zakladu Anatomii Patologicznej w Warszawie. Kierownik: prof. dr. med. L. Paszkiewicz Warszawa, Dzialdowska 1/3.
(CARDIAC ENLARGMENT in infant and child, endocardial fibroelastosis (Pol))

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

WURM, J.
CA

The prospecting of molding material deposits in Slovakia. Jaroslav Wurm. *Hutnické Listy*, Suppl. No. 2, 5-7 (1950).—Slovakian quartz sand deposits are mostly found in younger Tertiary formations. These sands contain high percentages of impurities, particularly clay admixts. and their utilization is adversely affected by the presence of gravel beds. Thick cover and irregular location of the sand deposits make the mining of these sands difficult. Geol. information on the sand mined in 15 of the most important locations is given. An interesting bentonite type was found; it is unlike the usual bentonite materials in its chem. compn., but its exptl. use in several foundries proved successful and its utilization on a larger scale is under consideration. Eugene Gros

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

WURM, JAROSLAV

The prospecting of molding material deposits in Slovakia.
Jaroslav Wurm. *Silikáty, Listy*, Suppl. No. 2, 6-7 (1960).—Slovakian quartz sand deposits are mostly found in younger Tertiary formations. These sands contain high percentages of impurities, particularly clay admixts. and their utilization is adversely affected by the presence of gravel beds. Thick cover and irregular location of the sand deposits make the milling of these sands difficult. Geol. information on the sand mined in 15 of the most important locations is given. An interesting bentonite type was found; it is unlike the usual bentonite materials in its chem. compn., but its expl. use in several foundries proved successful and its utilization on a larger scale is under consideration. Eugene Stros

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

Z/048/62/000/006/002/002
D291/D304

AUTHOR: Wurm, Jaroslav, Engineer

TITLE: A modern compressor type

PERIODICAL: Věda a technika mládeži, no. 6, 1962, 202

TEXT: This popular science article briefly lists an experimental helical-lobe air compressor, developed by the ČKD Works Prague, Sokolovo Subsidiary. The compressor is based on the Lysholm rotary compressor, employs two counterrotating helical-lobes, and is suitable for compression of air and chemically similar gases. This compressor type has properties superior to those of reciprocating compressors, and has a great variety of applications. [Abstractor's note: No performance ratings of the compressor are given]. There are 7 figures.

ASSOCIATION: ČKD Praha, závod Sokolovo (ČKD Works Prague, Sokolovo Subsidiary)

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APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

WURM, Pavel

Branch of the Czechoslovak Scientific Technical Society in the Water Resources Research Institute. Vodní hosp 13, no.3:119-120 '63.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8"

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8"

CSSR

WURMOVA, L.

no academic degree indicated

Second stomatological clinic of the faculty for general medicine, Charles University (II. stomatologicka klinika fakulty vseobecneho lekarstvi Karlovy University), Prague; director: Prof Dr F. URBAN, CSc

Prague, Ceskoslovenska Stomatologie, No 6, 1962, pp 449-452

"Fissural Cysts"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

YURMOVA, L. MUDr, asistent

Treatment of oro-anthral communications. Cesk.stomat. no.4-5: 176-179 Jl '55.

1. Z II. stomatol. klinikY, predonsta Dr. Nouvirt.
(MAXILLARY SINUS, diseases,
ther., management of oro-anthral passages)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

WURST, J.

Economic results of the use of the assembly-line method of construction in Dukla. p. 279 POZEMNI STAVBY. (Ministerstvo stavebnictvi) Praha. Vol. 3, no. 7, July 1955.

SOURCE: East European Accessions List., (EEAL), Library of Congress, Vol. 4, No. 12, December 1955

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

WURST, M.

Distr: 4E2c(j)

Electromigration methods. I. Relation between the structure of aromatic compounds and their mobility in paper electrophoresis. 7 Jaroslav Franc and Milan Wurst (Výzkumný ústav org. syntes, Pardubice-Rybitví, Czech.). *Chem. listy* 52, 1474–8 (1953).—The influence was investigated of the steric arrangement of org. compds. on the magnitude and direction of their mobility in the app. of Wieland and Fischer (*C.A.* 44, 2590*e*). The values obtained show that the position of the functional groups on the aromatic nucleus does not influence the final mobility of the compd., with the exception of the *o*-substituted derivs. which form intramol. H-bonds. Contributions of the individual function groups to the total mobility ($u \times 10^5$ sq. cm. v.$^{-1}$ sec.$^{-1}$) are given in 3*N* NH_4OH and *N* AcOH, resp.: OH, 11.3, 0.0; 2-OH, 20.4, 0.0; 3-OH, 28.1, —; CO_2H, 11.3, 1.6; 2-CO_2H, 20.4, 3.2; SO_3H, 10.0, 7.1; 2-SO_3H, 21.1, 13.0; 3-SO_3H, 27.3, 17.2; NH_2, −0.7, −7.1; 2-NH_2, −1.4, −13.4; NO_2, 0.0, 0.0; Me, 0.0, 0.0; OMe, 0.0, 0.0; CHO, 0.0, 1.2; Cl, 0.0, 0.0. Special correction terms had to be introduced for intramol. H-bonding: O—H—O, −5.9, 3.1; NO_2—H—O (also contg. a *p*-NO_2 group), −1.6, 0.0; NO_2—H—O, 1.2, 0.0; NO_2—H—N (also contg. a *p*-NO_2 group), −0.8, 3.2; O—H—N, 1.7, 3.2. An unknown acid arising as by-product in the Kolbe synthesis of *p*-aminosalicylic acid from *m*-aminophenol was identified as *2-hydroxy-4-aminoisophthalic acid* (u = 20.3). L. J. Urbánek

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B

COUNTRY : CZECHOSLOVAKIA
CATEGORY : Physical Chemistry. Surface Phenomena. Adsorption. Chromatography. Ion Exchange
ABS. JOUR. : RZKhim., No. 1 1960, No. 635

AUTHOR : Franc, J.; Wurst, M.
INST. : -
TITLE : Methods of Electromigration. I. Interrelation Between the Structure of Aromatic Substances and Their Mobility in Paper Electrophoresis
ORIG. PUB. : Collect. Czechosl. Chem. Communs, 1959, 24, No 3, 857-861
ABSTRACT : No abstract.
See RZhKhim., No 18, 1959, No 63879.

CARD: 1/1

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

FRANC, J.; WURST, M.

Electromigration methods. II. Relationship between the structure of anthraquinone derivatives and their mobility in paper electrophoresis. III. Mobility of some azodyes of I- and Y-acids. Coll Cz chem 25 no.3:657-667 Mr '60. (EEAI 9:12)

1. Forschungsinstitut fur organische Synthesen, Pardubice Rybitvi.
(Electrophoresis)
(Anthroquinone)
(Azo dyes)
(Sulfonic acids)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

FRANC, J.; WURST, M.

Chromatography of organic compounds. V. Determination of phenylchlorosilane by means of gas chromatography. Coll Cz chem 25 no.3:701-705 Mr '60. (EEAI 9:12)

1. Forschungsinstitut fur organische Synthesen, Pardubice-Rybitvi.
(Chromatography)
(Organic compounds)
(Chlorophenylsilane)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

FRANC, J.; WURST, M.

Chromatography of organic compounds. VII. Determination of aliphatic amines through gas chromatography. Coll Cz Chem 25 no.9:2290-2295 S '60. (EEAI 10:9)

1. Forschungsinstitut fur organische Synthesen, Pardubice-Rybitvi.

(Chromatography) (Organic compounds) (Amines) (Aliphatic compounds)

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

S/081/62/000/006/039/117
B101/B110

AUTHORS: Wurst, M., Dušek, R.

TITLE: Analysis of organosilicon compounds. I. Gas-chromatographic determination of methyl phenyl ethoxy silanes

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 6, 1962, 151 - 152, abstract 6D215 (Collect. Czechosl. Chem. Communs, v. 26, no. 8, 1961, 2022 - 2027)

TEXT: To separate and to determine quantitatively the components of the mixture arising in the synthesis of methyl phenyl diethoxy silane by a method described earlier (Capucio, V., et al., Chimie et industrie (Paris), 1951, 32, 282) gas liquid chromatography was applied at 175 - 180°C (or at 240°C for higher boiling substances) in columns (145·0,5 cm) containing siliconeelastomer on "Chromosorb" or kieselguhr (20:100) with a particle size of 0.02 - 0.04 cm, at a development rate of N_2 gas of 25 - 33 ml/min. Methyl triethoxy silane and C_6H_5Cl which cannot be separated on silicone are separated on 2,4,7-trinitrofluorenone under the

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Analysis of organosilicon ...

same conditions. The chromatograph and the working method have been described earlier (RZhKhim, 1961, 6D229, 21D141). The gases leaving the chromatograph are burnt, the arising H_2O is reduced to H_2 which is detected on the basis of its thermal conductivity. The relative retention volumes of 14 organic and organosilicon substances in the mentioned sorbents are given. [Abstracter's note: Complete translation.]

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CZECHOSLOVAKIA

WURST, M.

no academic degree indicated

Research Institute for Organic Syntheses (Forschungsinstitut fur organische Synthesen), Pardubice-Rybitvi. (Present address: Eastern Bohemian Chemical Works Synthesia (Vychodoceske chemicke zavody Synthesia), Lucebni Kolin works)

Prague, Collection of Czechoslovak Chemical Communications, vol 27, No 10, Oct 62, pp 2391-2397.

"Analysis of Organo-Silicon Compounds II. Separation and Definition of Vinyl-Ethoxysilane Using Gaschromatography"

Co-author:

DUSEK, R. Research Institute for Organic Syntheses (Forschungsinstitut fur organische Synthesen), Pardubice-Rybitvi. (Present address: Eastern Bohemian Chemical Works Synthesia (Vychodoceske chemicke zavody Synthesia), Lucebni Kolin works)

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

WURST, Milan

Gas chromatography. Pt.1: Method of quantitative analysis. Chem listy 57 no.2:113-129 F '63.

1. Vychodoceske chemicke zavody Synthesia n.p., zavod Lucebni, Kolin.

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

WURST, Milan

Gas chromatography. Pt. 2. Chem listy 57 no.6:615-628 Je '63.

1. Vychodoceske chemicke zavody Synthesia, zavod Lucebni, Kolin.

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WURST, M.

Analysis of organosilicon compounds. Pt.3. Coll Cz Chem 29 no. 6:1458-1465 Je '64.

1. Vychodoceske chemicke zavody Synthesia, Kolin Plant.

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KELEN, Anna; PAPP, Zoltan, dr.; WURSTER, Istvan

Certain questions of capacity measurement in cotton mills. Magy textil 17 no.4:182-185 Ap '65.

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

WURTERLE, Anton, dr.; SAS, Mihaly, dr., (Szeged Noi Klinika)

Causes, diagnosis, and therapeutic possibilities of virilism of women. Orv. hetil. 98 no.27:728-733 7 July 57.

1. A Liposei Tudomanyegyetem Szuleszeti es Nogyogyaszati Klinikajanak (igazgato: Robert Schroder dr.) kozlemenye.
(ADRENOGENITAL SYNDROME
etiol., differ. diag. & ther. (Hun))

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WURTH, M.

WURTH, M. A scientific excursion of Swiss foresters in Croatia. p.325

Vol. 80, no. 9/10, Sept./Oct. 1956
BILTEN DOKUMENTACJE ZA POLJOPRIVEDU, SUMARSTVO, DRVNU I DUVANSKU INDUSTRIJU.
AGRICULTURE
Beograd

So: East European Accession, Vol.6, no.3, March, 1957

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

DOLINSKI, R.; KURZEL, R.

Our experiences with investigation of the excretion of 17-keto-steroids and 17-ketogenic steroids in children with infectious hepatitis. Cesk. pediat. 19 no.11:989-993 N '64

1. I interni oddeleni (vedouci MUDr. J. Cerny) a II. infekcni oddeleni (vedouci MUDr. M. Mensikova) Krajske nemocnice s poliklinikou v Ostrave.

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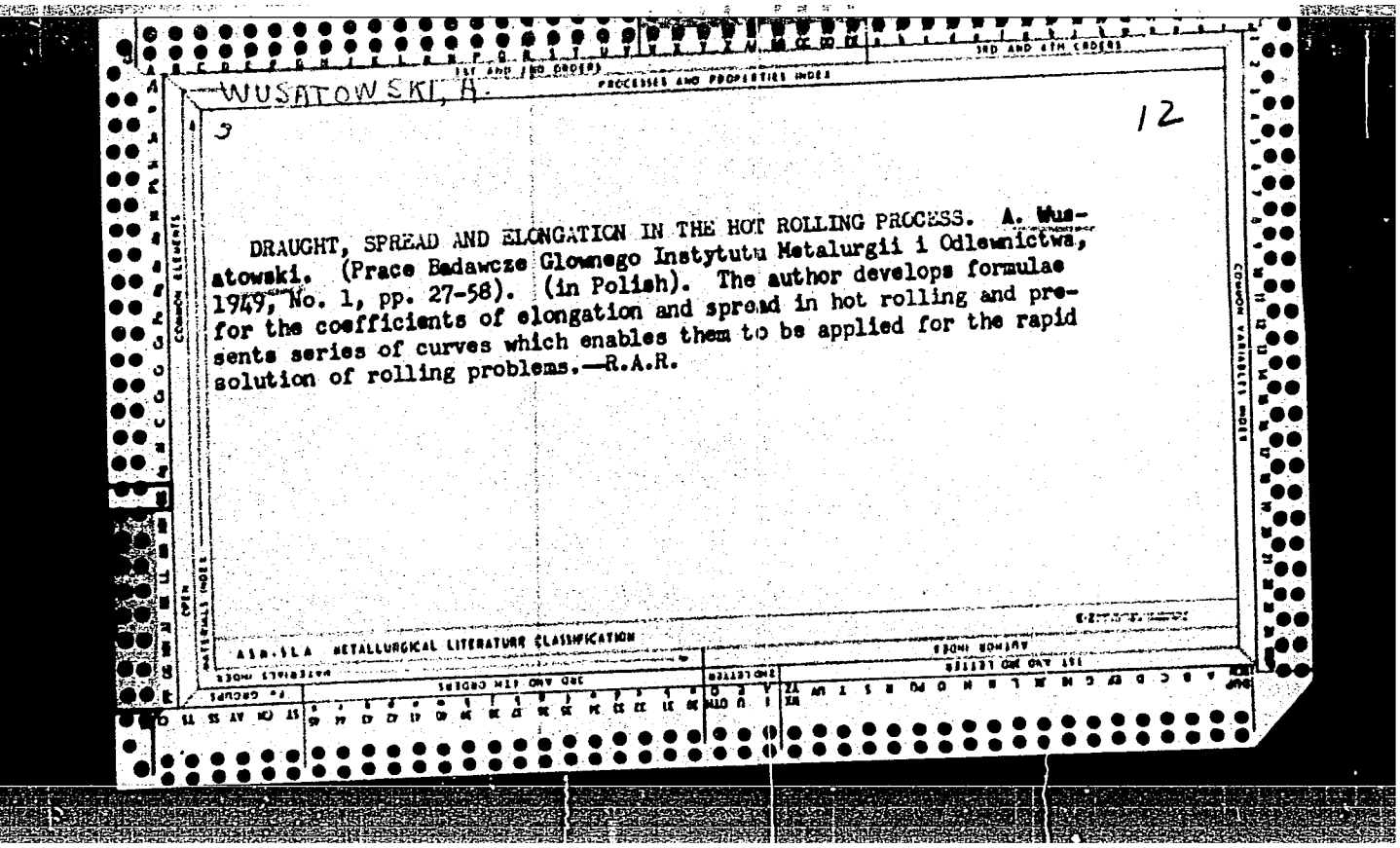

WUSATOWSKI, A.

12

DRAUGHT, SPREAD AND ELONGATION IN THE HOT ROLLING PROCESS. A. Wusatowski. (Prace Badawcze Glownego Instytutu Metalurgii i Odlewnictwa, 1949, No. 1, pp. 27-58). (in Polish). The author develops formulae for the coefficients of elongation and spread in hot rolling and presents series of curves which enables them to be applied for the rapid solution of rolling problems.—R.A.R.

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

WUSATOWSKI, A.

Chemical Abstracts
May 25, 1954
Metallurgy and Metallography

Influence of changes in intercrystalline substances on the properties of low-carbon steels. Z. Wusatowski. *Prace Inst. Mech.* 3, No. 8, 11-64(1953). A review with 187 references. M. O. Haloway

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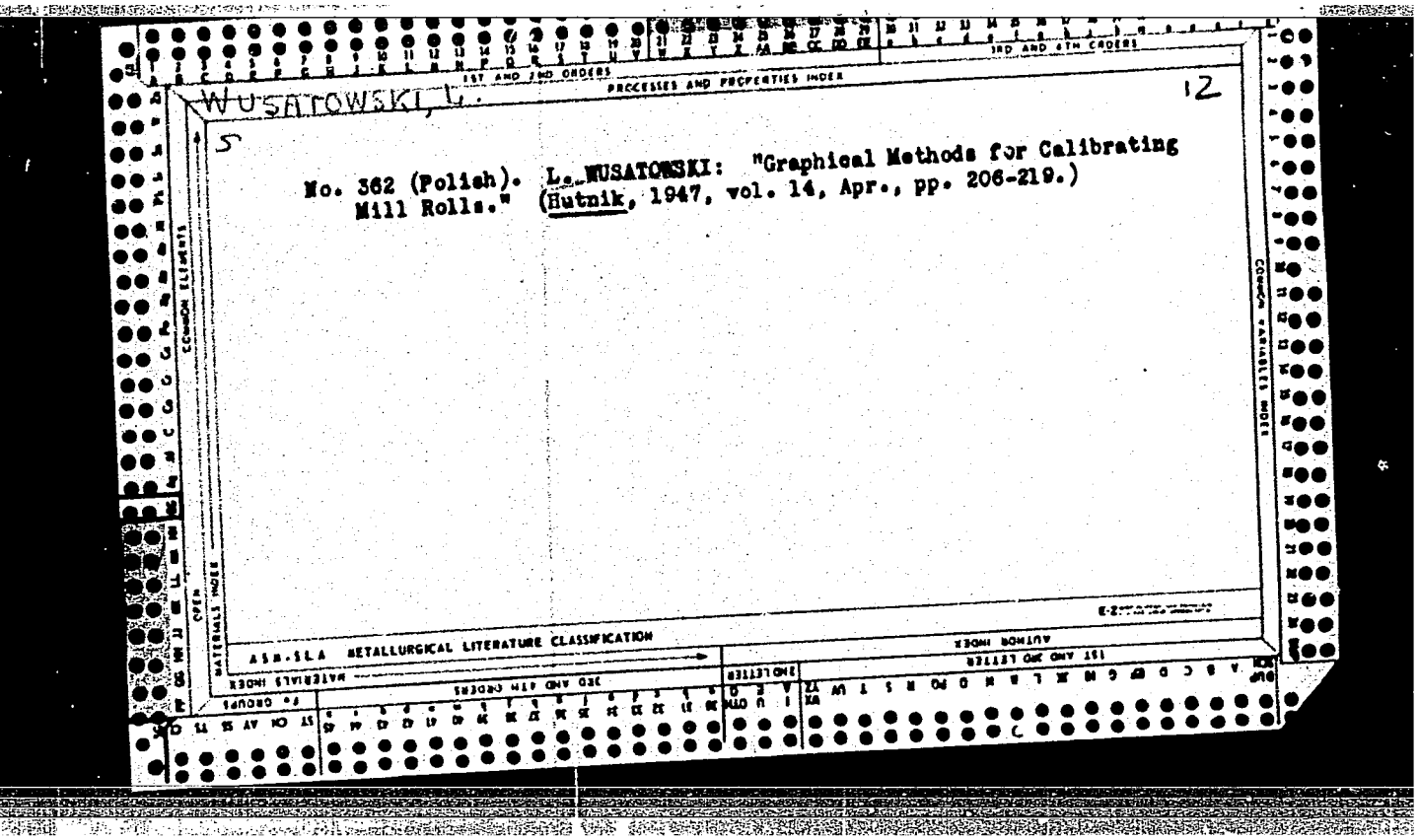

WUSATOWSKI, L.

12

5

No. 362 (Polish). L. WUSATOWSKI: "Graphical Methods for Calibrating Mill Rolls." (Hutnik, 1947, vol. 14, Apr., pp. 206-219.)

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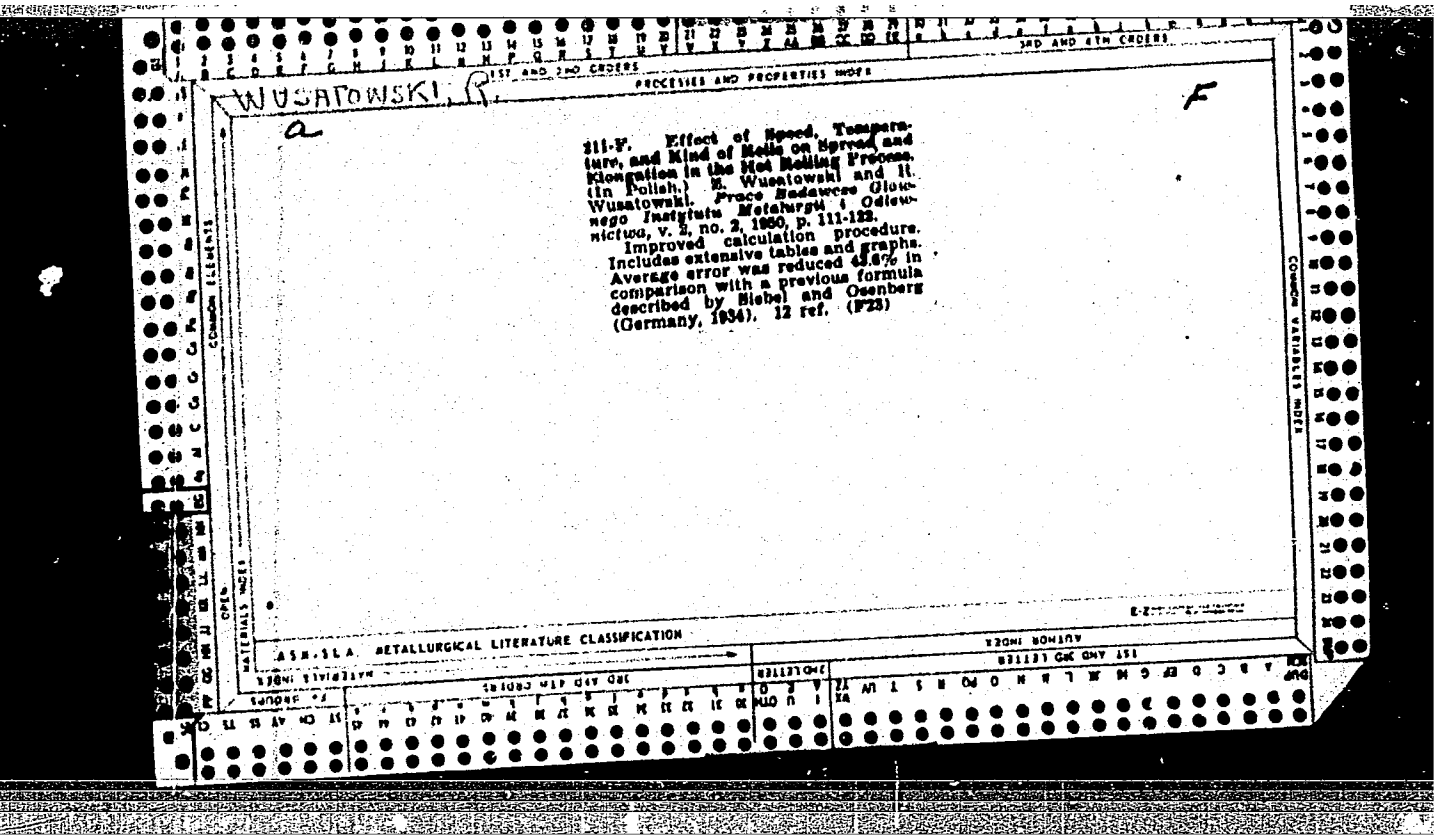

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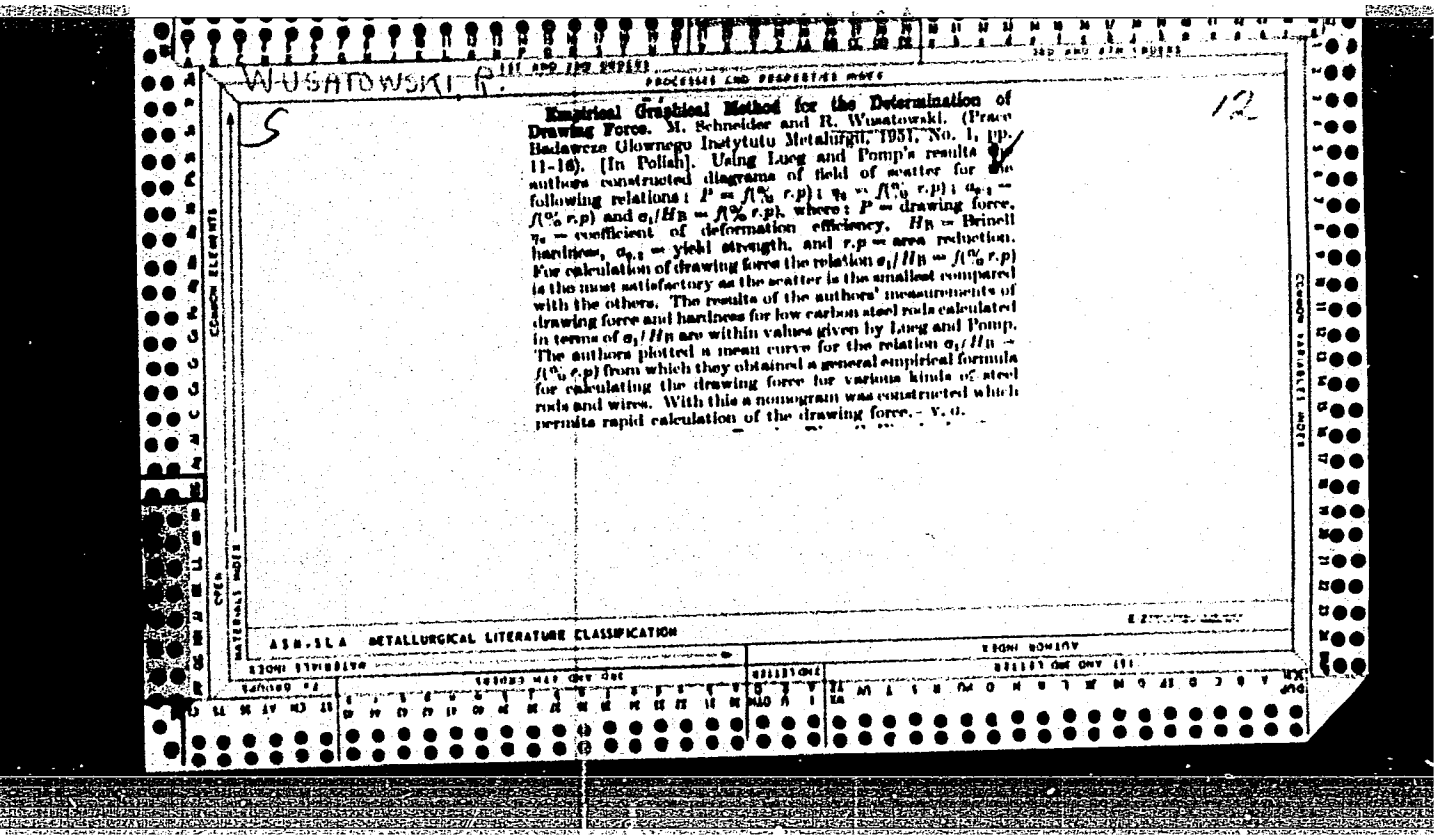

W-USATOWSKI R.

5

12

Empirical Graphical Method for the Determination of Drawing Force. M. Schneider and R. Wusatowski. (Prace Badawcze Glownego Instytutu Metalurgii, 1951, No. 1, pp. 11-16). [In Polish]. Using Lueg and Pomp's results the authors constructed diagrams of field of scatter for the following relations: $P = f(\% \ r.p)$; $\eta_c = f(\% \ r.p)$; $\sigma_{0.2} = f(\% \ r.p)$ and $\sigma_t/H_B = f(\% \ r.p)$, where: P = drawing force, η_c = coefficient of deformation efficiency, H_B = Brinell hardness, $\sigma_{0.2}$ = yield strength, and r.p = area reduction. For calculation of drawing force the relation $\sigma_t/H_B = f(\% \ r.p)$ is the most satisfactory as the scatter is the smallest compared with the others. The results of the authors' measurements of drawing force and hardness for low carbon steel rods calculated in terms of σ_t/H_B are within values given by Lueg and Pomp. The authors plotted a mean curve for the relation $\sigma_t/H_B = f(\% \ r.p)$ from which they obtained a general empirical formula for calculating the drawing force for various kinds of steel rods and wires. With this a nomogram was constructed which permits rapid calculation of the drawing force. - V. G.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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WUSATOWSKI

2577

669.3 : 669.14.001.8(018)-419.4-426

Mislotek Z., Wusatowski R. The Method of Producing Bimetallic Copper-Steel Conducting Wires.

Metoda produkcji bimetalowych drutów przewodowych miedź-stal. Prace Inst. Metalurgii No. 1), Katowice, 1952, PWT. 15.5 pp., 15 figs., 13 tabs.

Of the two principal methods of producing bimetallic wires, that which involves pouring molten copper over suitably prepared steel billets is, through the works published by L. Ginzburg, F. Pattison, well known; on the other hand, there is a shortage of exact information as to the method of pressing steel cores into rolled copper tubes. The difficulties involved in the first method lead the authors to the conclusion that the method of pressing steel cores into copper tubes will be the most economical in current conditions. Lacking precise data concerning this method, the authors conducted trials on a semi-industrial scale, basing their determination of the dimensions of the copper tubes and the steel core on the conditions given in the GOST 3822—47 standard, and, on account of a higher flow velocity of copper than of steel core during rolling, adopting a higher ratio (1:2.58) of section surface. Electrolytic copper 99.8% Cu, deoxidized with phosphorus was used for the tubes which were rolled on the aluminum tube mill. Before having the core pressed into them the tubes were bored to an appropriate diameter, and etched. The cores of armco grade steel were degreased, etched and coppered. The bimetallic billets were, after pressing and in order to obtain better adhesion of the two metals heated in a temperature of 900°C for 3½ hours; then, before rolling, the billets were water cooled and rolled from the diameter 80.0 mm to 9.0 mm. The conditions of rolling were established experimentally, the sequence of passes was ascertained by rolling soft steel billets, and the

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WUSATOWSKI, R.

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mean elongation coefficient was calculated according to the Winogradow formula. The flow of the metal was calculated by means of Z. Wusatowski's formula with the help of A. Wojtylak's special gliding rule. It was established that the flow of the bi-metal in grooves depends on a) the temperature difference between steel and copper, b) the rate at which the copper flows over the core, c) the parameters determining the flow conditions of the metal in the process of hot-rolling. The rolled rods, were, after checking, drawn to the diameter of 3.0 mm. For tests on production scale, DSA grade steel in rods rolled according to PN/H—93216 and tubes rolled in exact dimensions according to PN/B—1002 were used instead of the armco grade steel. Tests were made for two grades of wire with the section ratios, copper to steel 30/70 and 40/60. The procedure given in the initial tests was followed for rolling and drawing. On examining the properties of the wire obtained, the necessity of inter-operation annealing was established and its conditions determined. It was concluded, however, that that necessity would make the use of DSA grade steel uneconomical.

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

WUSATOWSKI, R.

Polish Technical Abst.
No. 1 1954
Metallurgy

2568

621.944.073.3

Wusatowski Z., Wusatowski R. **Possibilities of Mathematical Determination of Metal Flow in Regular Sections.**

„Możliwości matematycznego określenia płynięcia metalu w profilach regularnych". (Prace Inst. Metalurgii No. 4) Katowice, 1952, 16.5 pp., 23 figs., 6 tabs.

Commonly used methods of calculating the mean draft in the rolling process and the authors' own method of calculating the mean height and draft, together with the adaptation of Z. Wusatowski's formula for calculating spread and elongation; it was found possible to determine mathematically the metal flow in regular sections. Checking the conclusions in practice.

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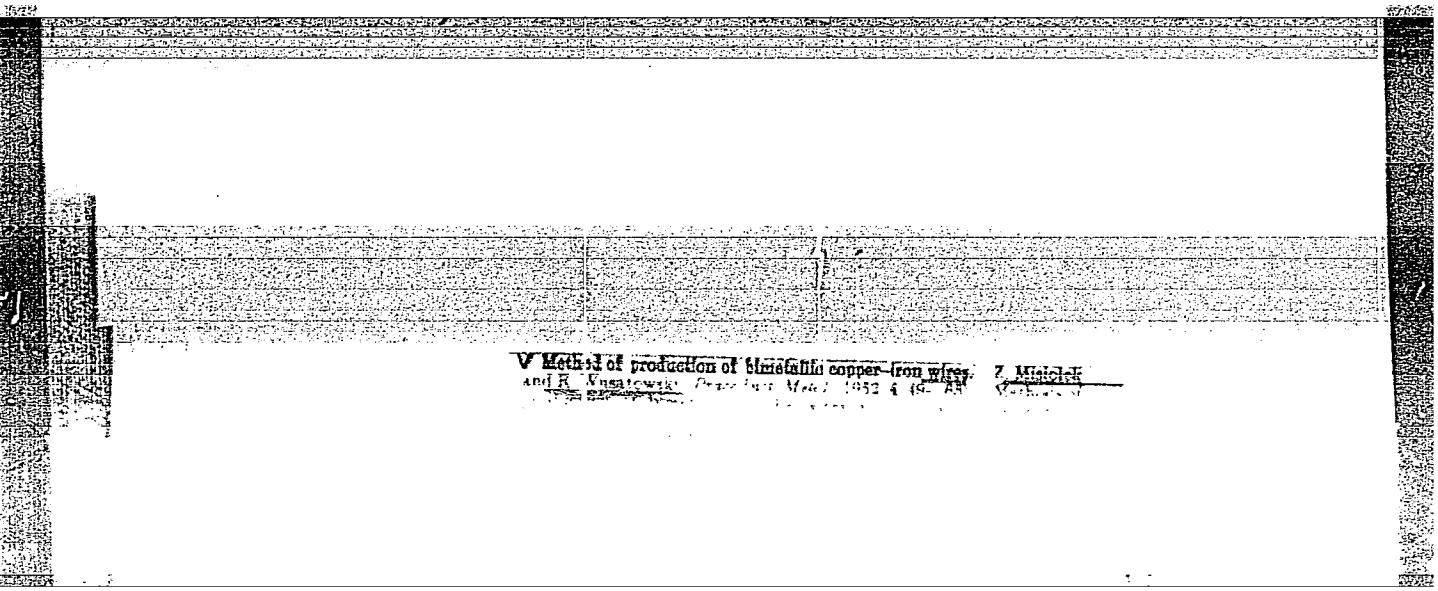

V Method of production of bimetallic copper-iron wires. Z. Misiolek and R. Wusatowski. Prace Inst. Metal. 1952 4 49-[illegible]

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

Mathematical determination of metal flow in regular sections. Z. Wusatowski and R. Wusatowski (*Prace Inst. Metali*, 1952, 4, 273—291).—On the basis of theoretical considerations, a new time-saving method of mathematical determination of metal flow

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WUSATOWSKI, K.

British Abst.
B I
Aug. 1953
Ferrous
Metallurgy

Cladding of mild low-carbon steel sheets with stainless steel. C. Mirski, R. Wusatowski, and Z. Mislolek (prace Inst. Metal., 1952, 4, 345-355).--A method of cladding of milk steel sheets with stainless 18/8 steel is developed. Main stages of manufacture are described. The prepared materials are heated to 1150-1200°, hot-rolled and heat-treated at 1050°. The results of the technological, mechanical, and metallographical examination of the product are given. The problem of mutual diffusion at the interface receives special attention.

S. K. Lachowicz.

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WUSATOWSKI, R.

3

✓ 17891* (Possibilities in the Mathematical Determination of the Flow Process in Standard Rolled Shapes.) Möglichkeiten der mathematischen Bestimmung des Fliessvorganges in regulären Walzprofilen. Z. Wusatowski and R. Wusatowski. *Metallurgie und Giessereitechnik*, v. 4, no. 7, July 1954, p. 295-307.

Simplified method computes applied pressure and flow of steel in lateral and longitudinal directions; also designs new rolls. Diagrams, nomograms, tables. 10 ref.

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POLAND

WUSATOWSKI, R.

"Compound Clad Metals," by R. WUSATOWSKI; Prace Instytutow Ministerstwa Hutnictwa, Gliwice, Nos. 2-4, 1955.

[redacted]

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

Compound metals. R. Wusatowski (*Prace Inst. Mineral. Hutn.*, [illegible] of the manufacturing methods of

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Wusatowski R.

3

POL

12075* Modern Methods of Rolling Rods Into Rivets and Bolts. Nowoczesne metody walcowania prętów na nity i śruby. (Polish.) Roman Wusatowski. *Wiadomości Hutnicze*, v. 11, no. 1, Jan. 1955, p. 1-14.

Now and older rolling machines and techniques compared; machine designs, roll types, and groove designing; roller pressures; heating methods; thread rolling. Photographs, diagrams. 11 ref.

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WUSATOWSKI, R. POLAND

"Experiments for Adapting Metal Flow Formulae to Roll Pass Design," by Z. WUSATOWSKI and R. WUSATOWSKI, Prace Instytutow Ministerstwa Hutnictwa, Gliwice, Nos. 2-4, 1955.

[redacted]

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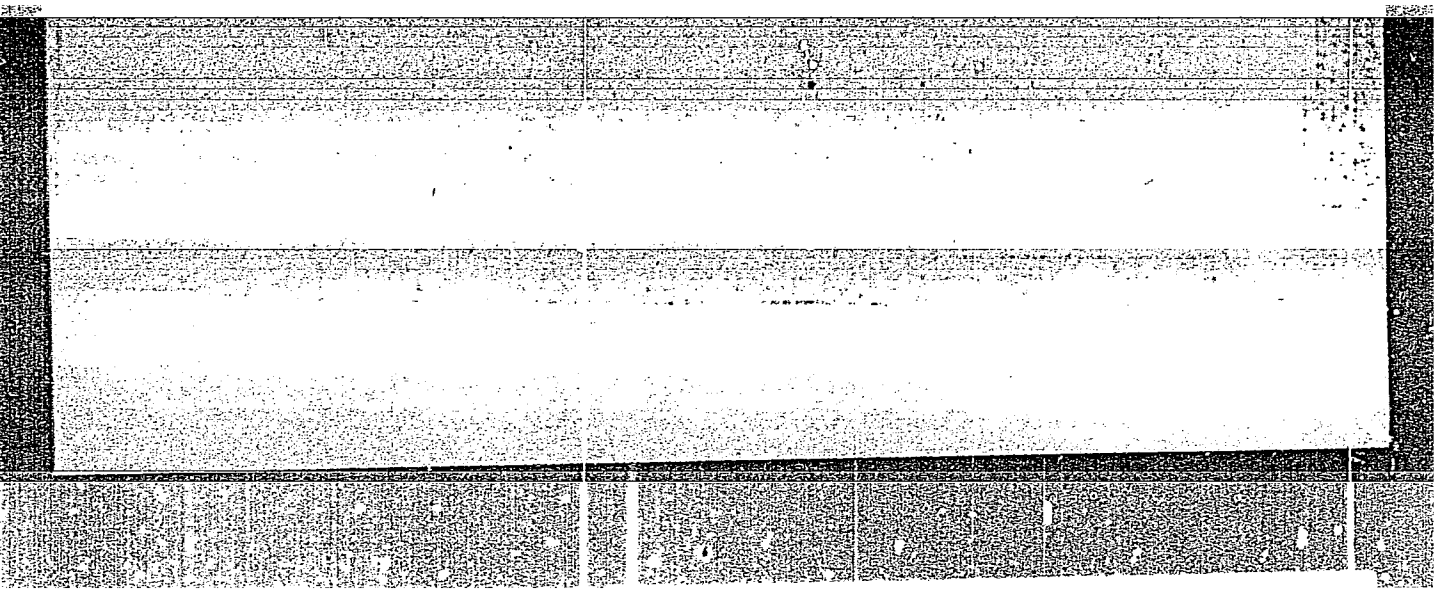

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P/039/61/000/003/002/002
A221/A126

AUTHORS: Kieszniewski, Jan, Master, Kuś, Lesław, Siewierski, Jerzy, and Wusatowski, Roman, Masters of Engineering

TITLE: Radio-isotopic investigation of drawing die attrition, depending on lubrication and drawing rate

PERIODICAL: Hutnik, no. 3, 1961, 91 - 106

TEXT: In this report the authors describe their investigations, made to establish optimum conditions at which the attrition of drawing dies can be reduced and also to establish the best combination of base coating material and lubricants applied at wire drawing. To measure the attrition of drawing dies, they used irradiated holes through which the wire was drawn. Samples of drawn wire were subsequently examined for their radioactivity, caused by a number of radioactive particles torn off the die hole and adhering to the wire. Test drawing was carried out at 1.5, 2.0 and 2.5 m/sec rate, using 5.5 mm thick wire rods in 5 mm drawing die, 4.1 mm wire rod in 3.5 mm drawing die and 2.3 mm wire rod in 2 mm drawing die. Chemical composition of wire rods used for these experiments was the

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following:

Type of steel	Alloying constituents %					
	C	Mn	Si	P	S	Ni
Low carbon steel	0.08	0.27	0.06	0.021	0.031	0.02
D45A	0.46	0.52	0.17	0.035	0.023	0.02
D85A	0.86	0.55	0.18	0.022	0.021	0.12

For each variant of experiments, 3 coils of about 600 m of wire each were used. For establishing the degree of radioactivity of the drawn wire, 1.3 m long sample pieces were cut out from it, at the beginning at every 4.5 m, then at every 20 m and finally at every 30 m. From these 1.3 m long samples, shorter pieces were cut out and placed in 43 x 45 mm aluminum frames to be examined for radioactivity by 2 Geiger-Müller counters simultaneously, from the top and from the bottom. The attrition of the drawhole equals about 0.08 g/ton of the drawn wire and, therefore, for a 5 mm wire it will be 1.2×10^{-5} g/m; assuming that the shortest piece of a sample is 0.2 m, the attrition of the drawhole along this piece will be 2.4×10^{-6} g. Therefore the maximum specific radioactivity of drawhole would be $s = \frac{3 \times 10^{-4}}{2.2 \times 10^{-6}\ g} \cong 120\ \mu C/g$; similarly, the radioactivity of the largest draw-

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hole weighing 196 g, would be S = 120 μC/g x 196 g = 23,000 μC = 23.5 mC. Apart from measuring the attrition of drawholes, samples of wire were examined for their mechanical and plastic properties before and after drawing; about 650 tests were carried out. During the series of investigations, about 2,000 measurements of radioactivity on 38,000 wire samples were made; the total length of all samples was 900 m. The majority of collected information confirmed, in general, the conclusions drawn by some foreign investigators, that the right combination of lubricants and increased rate of drawing, improves the quality of the products. The authors arrived at the following conclusions: a) Increased drawing rate of up to 2.5 m/sec for production of wire from carbon steel is appropriate and from the economical and technological point of view justified, because at these speeds there is no appreciable increase of die attrition. b) When drawing wires from low-carbon steel, lime coating and soap powder can be used as lubricant. c) For drawing wires from higher carbon steels phosphatic coating is advisable, because it reduces considerably the friction wear of draw dies, as compared with lime coating. d) For drawing wires of larger diameters and lime coating, FDG lubricant should be used. There are 11 tables, 11 figures, 3 photos and 5 references: 3 Soviet-bloc and 2 non-Soviet-bloc.

Card 3/3

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

P/043/63/000/002/001/001
D403/D307

AUTHOR: Wusatowski, Roman, Master of Engineering

TITLE: High alloy steels for the production of tubes

PERIODICAL: Wiadomości Hutnicze, 19 no. 2, 1963, 41-47

TEXT: A popular review article giving a general account of: 1) chrome steels, 2) chrome-nickel steels, and 3) high alloy steels. The chemical compositions of steels 2H13, H17, H17N2, H26N4, H23N18, H18N9S, H25N20S2, H18N10MT and H18N12M2T are tabulated, and diagrams are given showing the effects of alloying elements on the steel properties. General properties are summarized concluding that a) 2H13, H17 and H17N2 cannot be water-cooled as they suffer from surface cracking owing to the martensitic transformation in a thin layer (with associated volume change) owing to low thermal conductivity which increases with temperature; b) steels with low thermal conductance and large expansion should be heated slowly to avoid cracking; c) if steels as under b) also have a tendency towards trans-crystallization, they should be deformed together with

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High alloy steels ...

a layer of crystals frozen after prolonged heating. A brief description is also given of plastic strength and resistance to deformation, quoting typical values in tabular form. Plasticity is defined, discussed, and methods of increasing it are mentioned. There are 5 figures and 3 tables.

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001961730006-8

P/043/63/000/003/001/002
D001/D101

AUTHOR: Wusatowski, Roman, Master of Engineering

TITLE: Production of tubes from high alloy steels

PERIODICAL: Wiadomości hutnicze, 19 no. 3, 1963, 70-72

TEXT: This is the continuation of an article printed in the no. 2, 1963 issue of same periodical and constitutes a brief outline of methods applicable in tube production from high alloy steels. Individual chapters touch on preliminary treatment of blanks, heating, rolling, cooling, inter-operational thermal treatment, scale removal, lubrication and cold working, finishing, and final tests. The blanks for such tubes must be either worked or centrifugally cast; the latter require preliminary solutioning from 1,050-1,100°C if made from austenitic steel, machining, and rolling on an elongator, piercing mill or pilger mill. In the pilger process, the mandrels must be carefully prepared and coated with MoS_2 or graphite. Steels of the 2H13, H17N2 and H17N4 types require slow cooling upon rolling, in order to prevent martensitic transition and cracking. The tubes have

Card 1/2

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D001/D101

Production of tubes from . . .

to be quickly cooled to 680-450°C, placed for 1-1½ hours in a furnace at 680-700°C, and further cooled at ambient temperature. Tubes thus treated have the optimum structure for further cold working. Tubes from H17 and H25N20S2 steels must be rapidly cooled to about 600°C, the further cooling progress being optional. Among usable methods of scale removal are electrolytic pickling in an HNO_3 + HF bath, pickling in molten NaOH under the addition of an oxidizer and NaCl, and pickling in sodium hydride. It is pointed out that quality control of finished tubes as practiced in Poland is far from perfect.

Card 2/2

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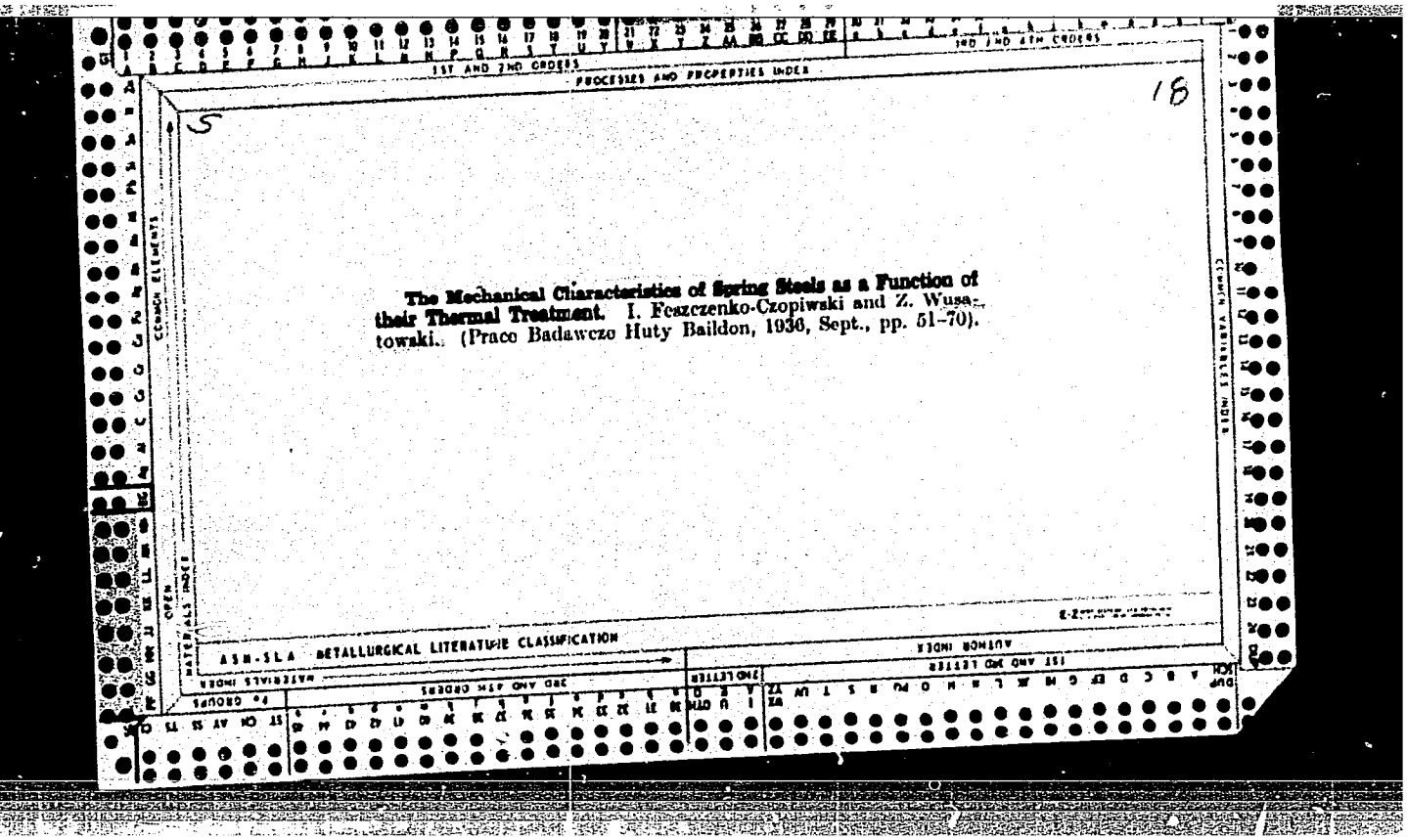

The Mechanical Characteristics of Spring Steels as a Function of their Thermal Treatment. I. Feszczenko-Czopiwski and Z. Wusatowski. (Prace Badawcze Huty Baildon, 1936, Sept., pp. 51–70).

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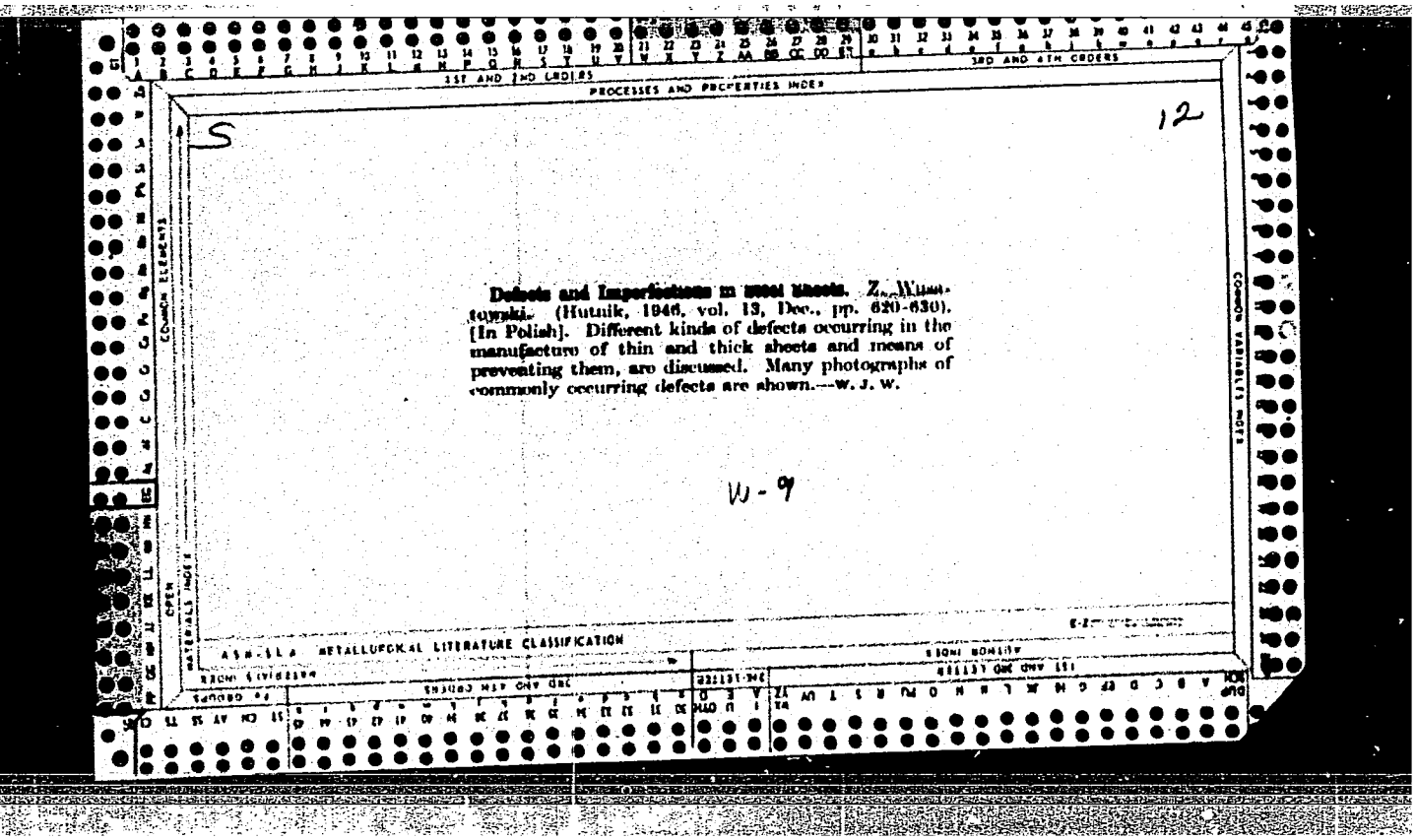

1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

PROCESSES AND PROPERTIES INDEX

S

12

Defects and Imperfections in steel sheets. Z. Wusatowski. (Hutnik, 1946, vol. 13, Dec., pp. 620-630). [In Polish]. Different kinds of defects occurring in the manufacture of thin and thick sheets and means of preventing them, are discussed. Many photographs of commonly occurring defects are shown.—W. J. W.

W-9

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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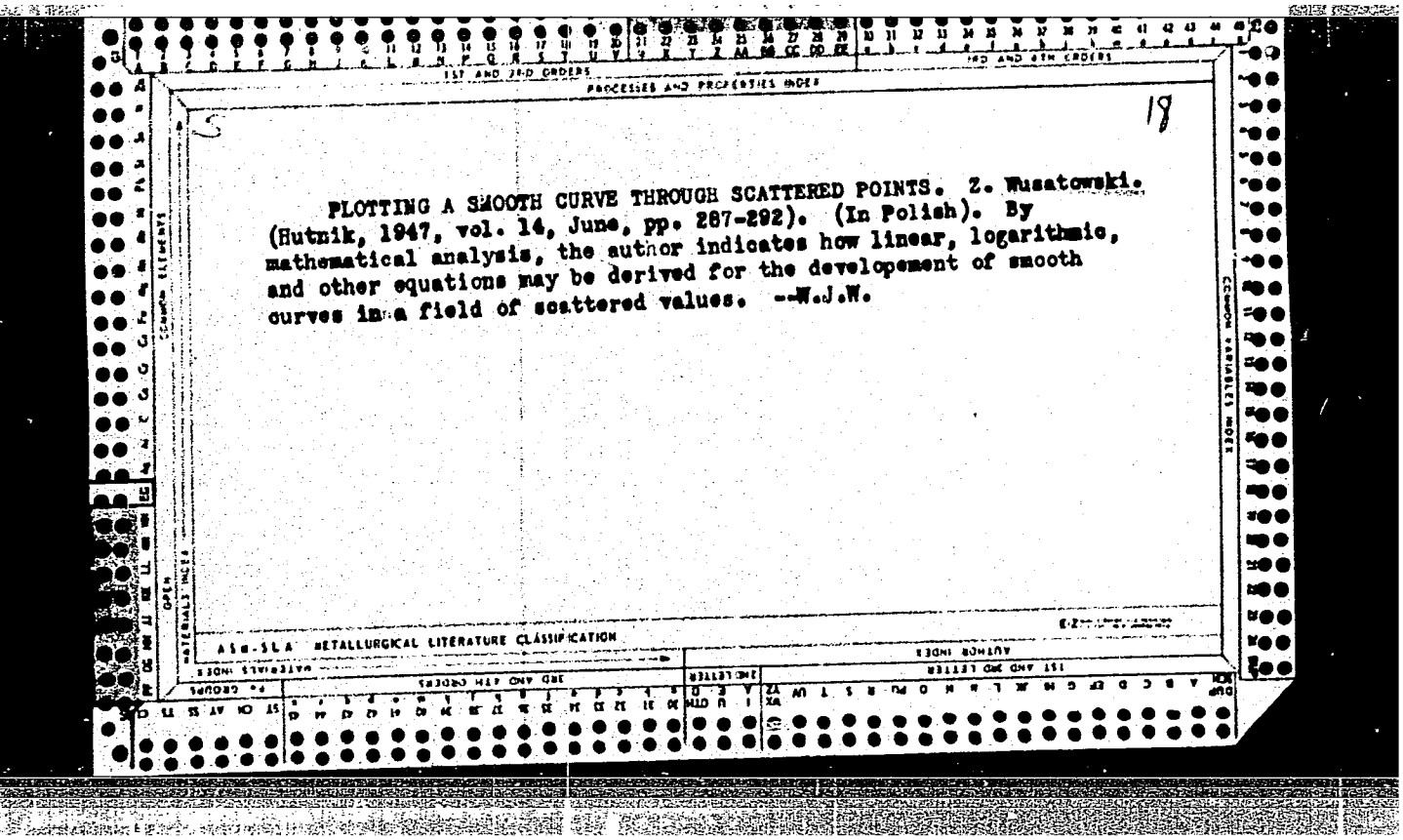

19

PLOTTING A SMOOTH CURVE THROUGH SCATTERED POINTS. Z. Wusatowski. (Hutnik, 1947, vol. 14, June, pp. 287-292). (In Polish). By mathematical analysis, the author indicates how linear, logarithmic, and other equations may be derived for the developement of smooth curves in a field of scattered values. --W.J.W.

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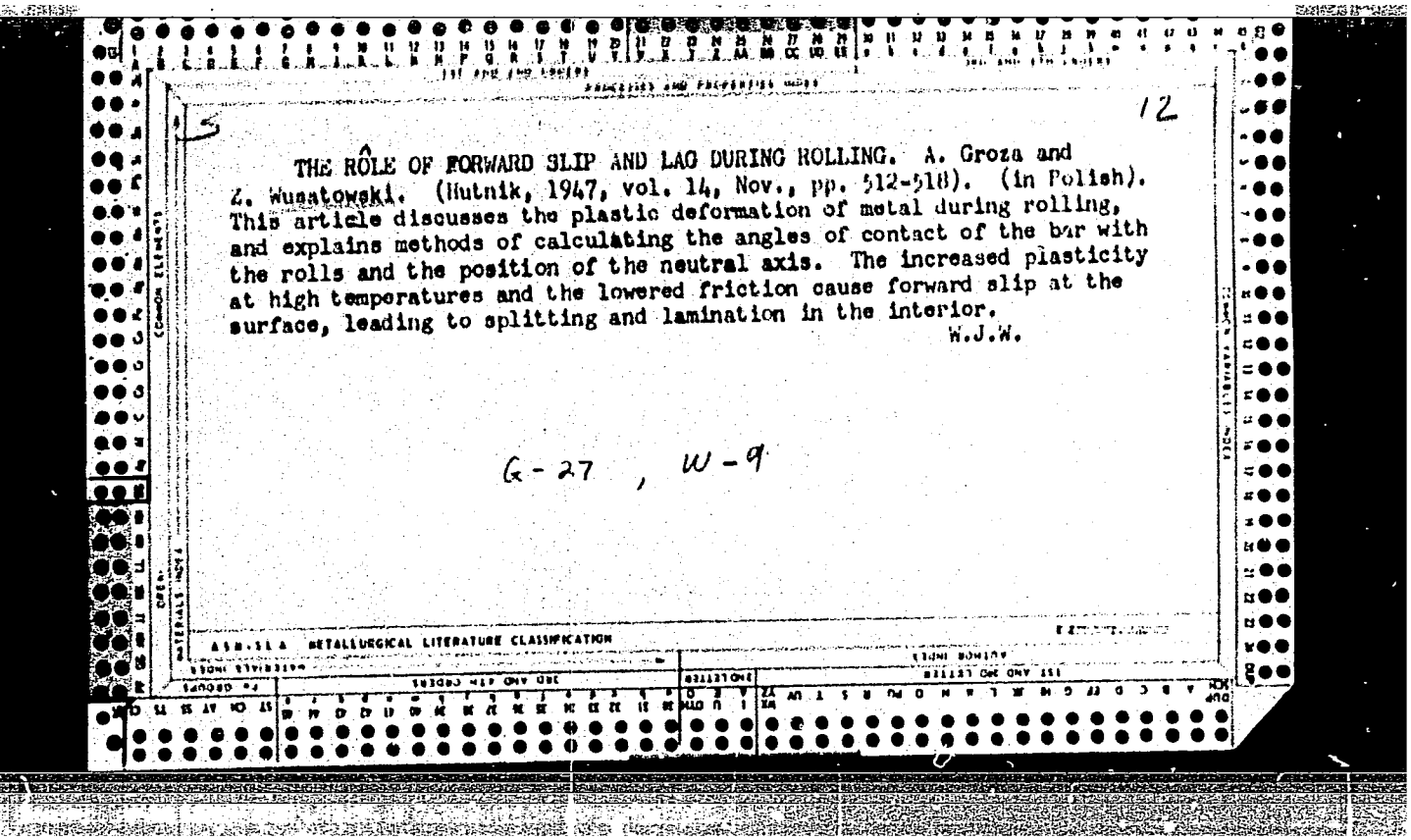

12

THE ROLE OF FORWARD SLIP AND LAG DURING ROLLING. A. Groza and Z. Wusatowski. (Hutnik, 1947, vol. 14, Nov., pp. 512-518). (in Polish). This article discusses the plastic deformation of metal during rolling, and explains methods of calculating the angles of contact of the bar with the rolls and the position of the neutral axis. The increased plasticity at high temperatures and the lowered friction cause forward slip at the surface, leading to splitting and lamination in the interior.

W.J.W.

G-27 , W-9

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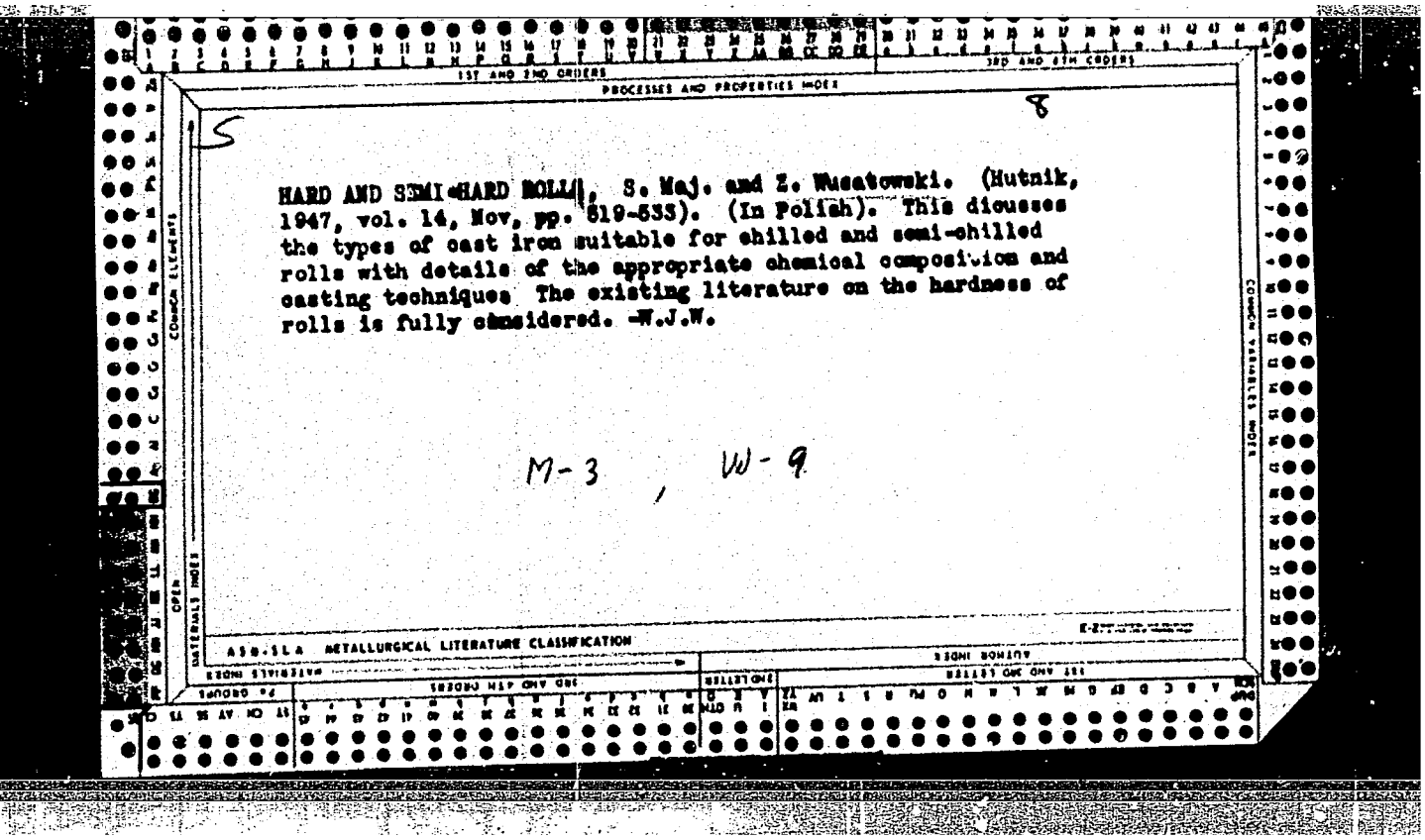

HARD AND SEMI-HARD ROLLS. S. Maj. and Z. Wesatowski. (Hutnik, 1947, vol. 14, Nov, pp. 619-633). (In Polish). This diousses the types of cast iron suitable for chilled and semi-chilled rolls with details of the appropriate chemical composition and casting techniques The existing literature on the hardness of rolls is fully considered. -W.J.W.

M-3 , W-9

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Br. Abs. BI-5 Ferrous Metallurgy.

Hard and semi-hard cast-iron rolls. S. Maj and Z. Wusatowski. (Hutnik, 1947, 14, 519–533; J. Iron and Steel Inst., 1948, 160, 109).—Types of cast Fe suitable for chilled and semi-chilled rolls are discussed with details of appropriate composition and casting technique. The literature on the hardness of rolls is reviewed.
R.B.Clarke.

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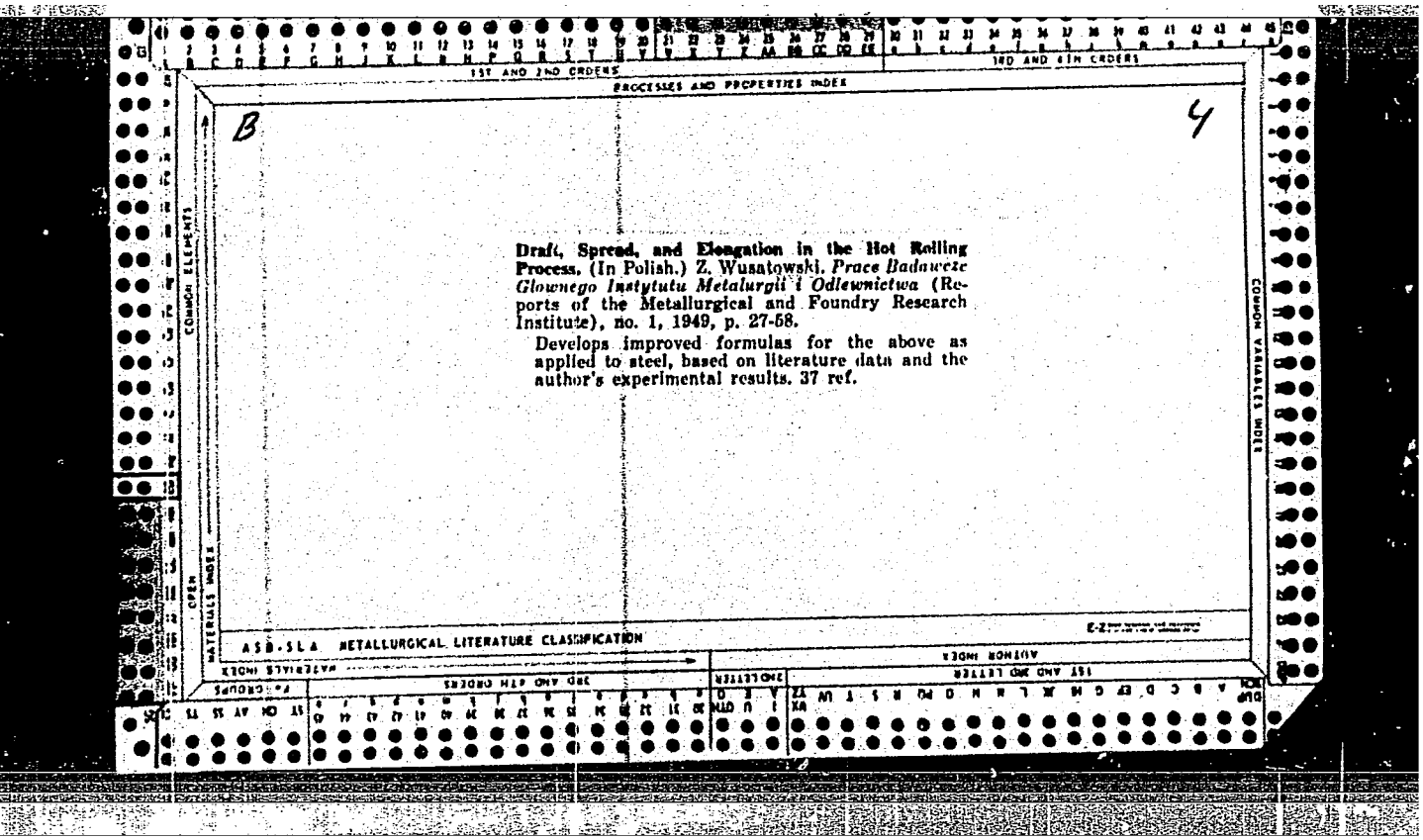

Draft, Spread, and Elongation in the Hot Rolling Process. (In Polish.) Z. Wusatowski. *Prace Badawcze Glownego Instytutu Metalurgii i Odlewnictwa* (Reports of the Metallurgical and Foundry Research Institute), no. 1, 1949, p. 27-58.

Develops improved formulas for the above as applied to steel, based on literature data and the author's experimental results. 37 ref.

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WUSATOWSKI, Z.

Wusatowski Z., Dr.

Wusatowski Z., Dr. Eng. "The Care of Rolls in Rolling-Mills." (Sposob racjonalnego obchodzenia sie z walcami na walcowniach). Hutnik, No. 1-2, 1949, pp. 30-34, 6 figs.

The author considers the preventive and precautionary measures to be adopted during the operation, interruption, replacement and storage of rolls in rolling-mills. Particular attention is devoted to the cooling, or alternatively to the heating, as the case may be, of the rolls, and to temperature control, in order to avoid minor cracks. Emphasis is laid on the advantages of induction heaters and on the design of the Lukov and the Kharkov Elektroprom heater. Instances are quoted of damage to rolls from various causes.

SO: Polish Technical Abstracts - No. 2, 1951

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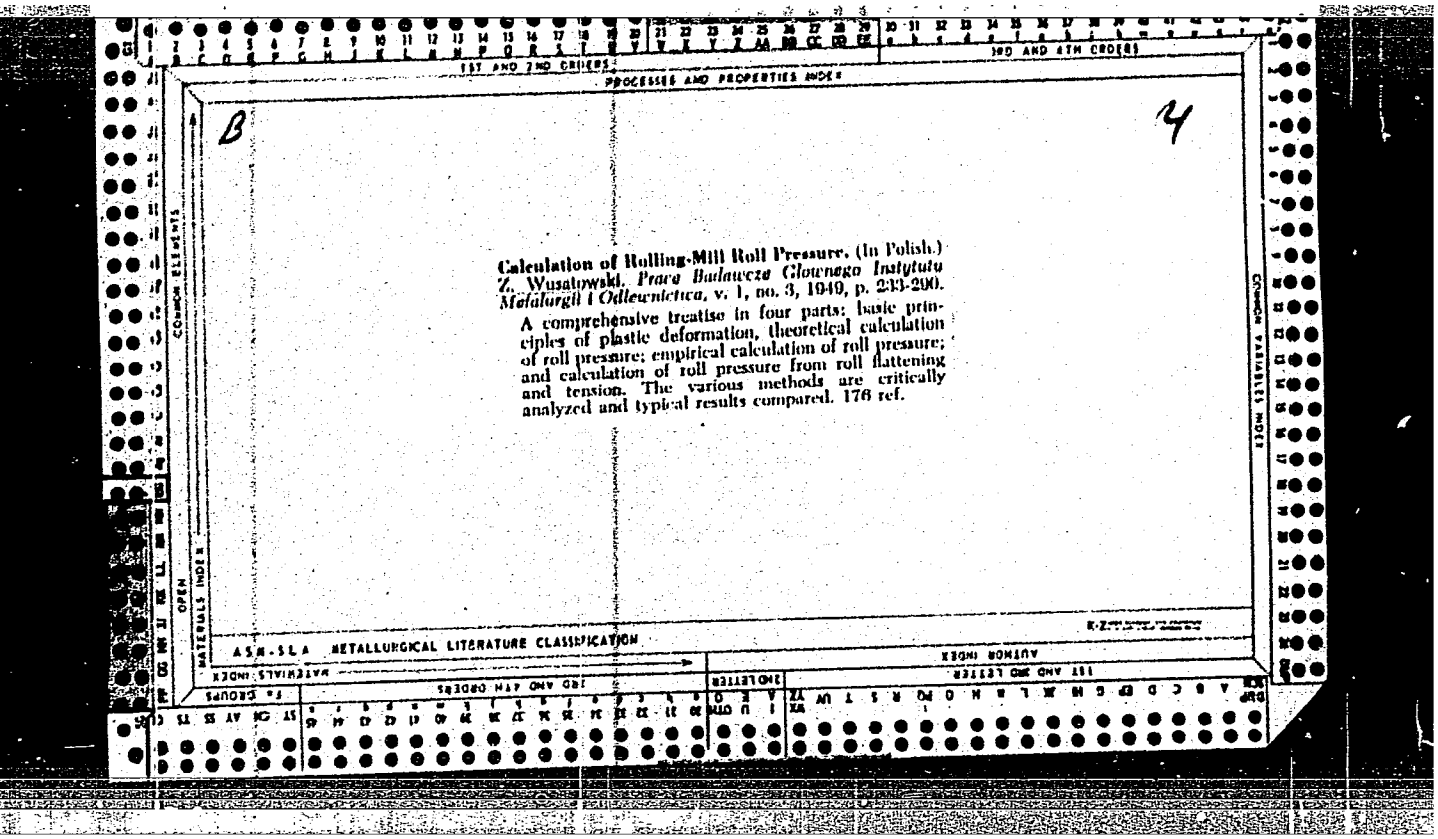

Calculation of Rolling-Mill Roll Pressure. (In Polish.) Z. Wusatowski. *Prace Badawcze Glownego Instytutu Metalurgii i Odlewnictwa*, v. 1, no. 3, 1949, p. 233-290.

A comprehensive treatise in four parts: basic principles of plastic deformation, theoretical calculation of roll pressure; empirical calculation of roll pressure; and calculation of roll pressure from roll flattening and tension. The various methods are critically analyzed and typical results compared. 176 ref.

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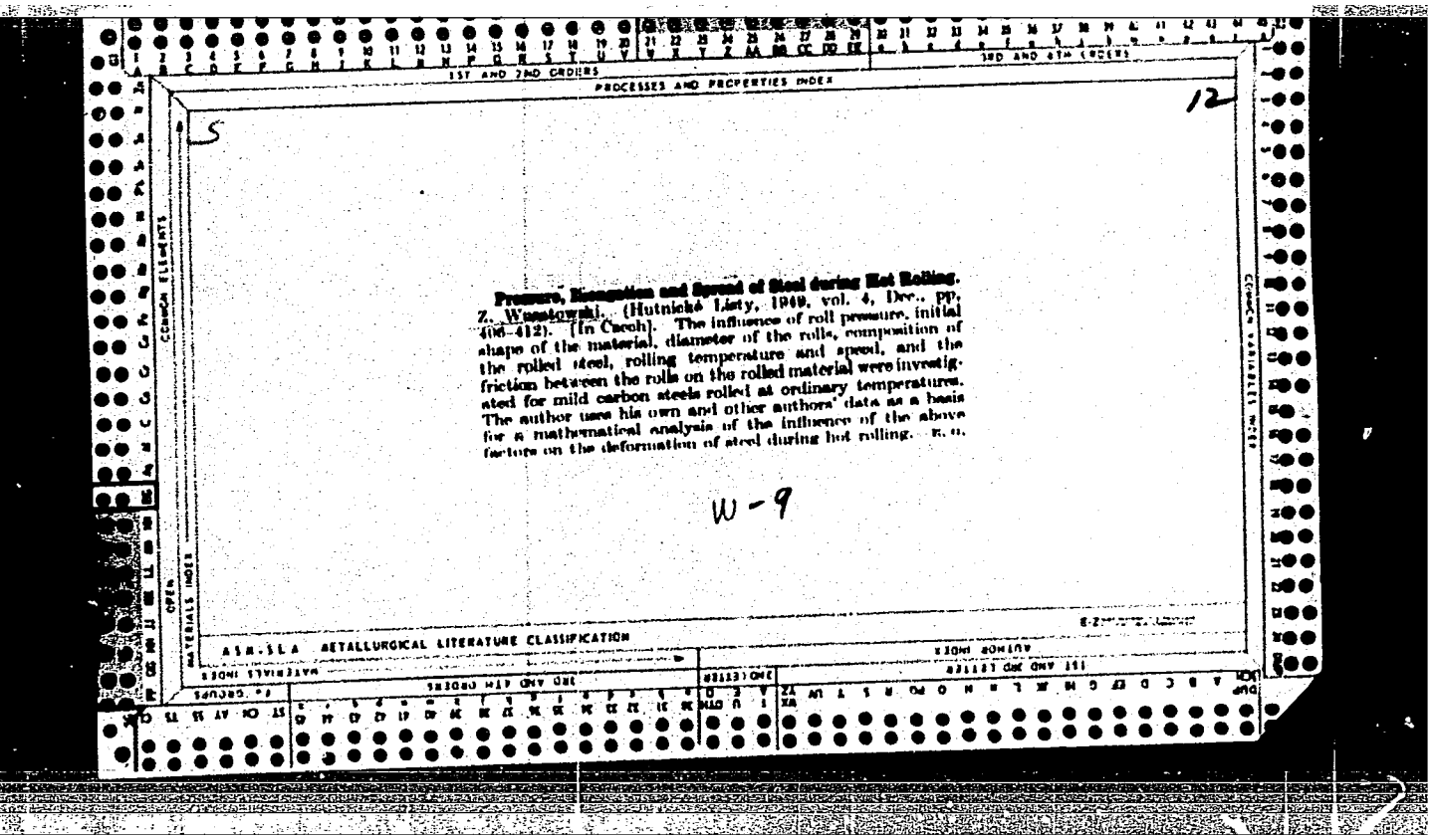

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

12

S

Pressure, Elongation and Speed of Steel during Hot Rolling. Z. Wesołowski. (Hutnické Listy, 1949, vol. 4, Dec., pp. 406–412). [In Czech]. The influence of roll pressure, initial shape of the material, diameter of the rolls, composition of the rolled steel, rolling temperature and speed, and the friction between the rolls on the rolled material were investigated for mild carbon steels rolled at ordinary temperatures. The author uses his own and other authors' data as a basis for a mathematical analysis of the influence of the above factors on the deformation of steel during hot rolling. E. O.

W-9

A.S.M.-S.L.A. METALLURGICAL LITERATURE CLASSIFICATION

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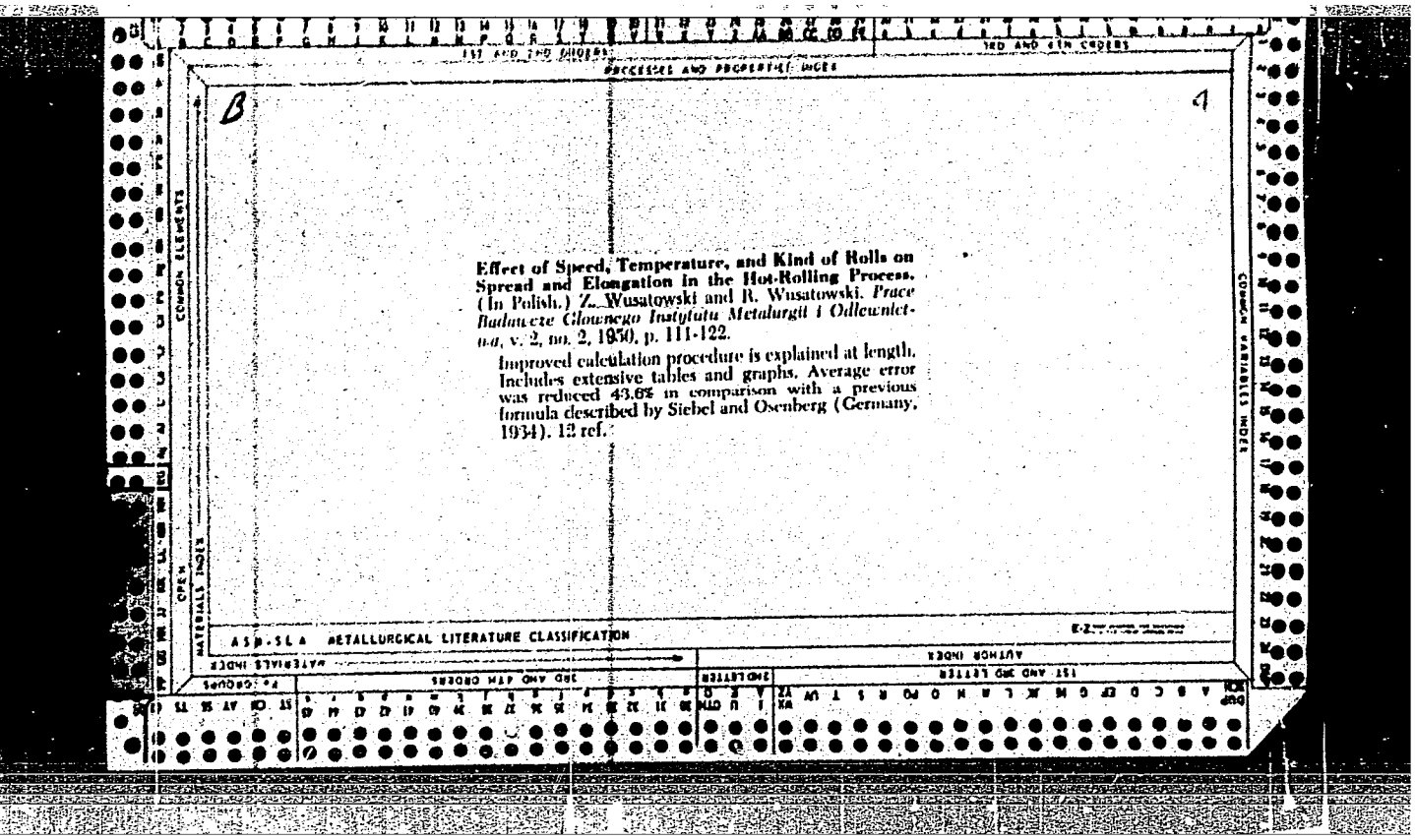

Effect of Speed, Temperature, and Kind of Rolls on Spread and Elongation in the Hot-Rolling Process. (In Polish.) Z. Wusatowski and R. Wusatowski. *Prace Badawcze Glownego Instytutu Metalurgii i Odlewnictwa*, v. 2, no. 2, 1950, p. 111-122.

Improved calculation procedure is explained at length. Includes extensive tables and graphs. Average error was reduced 43.6% in comparison with a previous formula described by Siebel and Osenberg (Germany, 1934). 12 ref.

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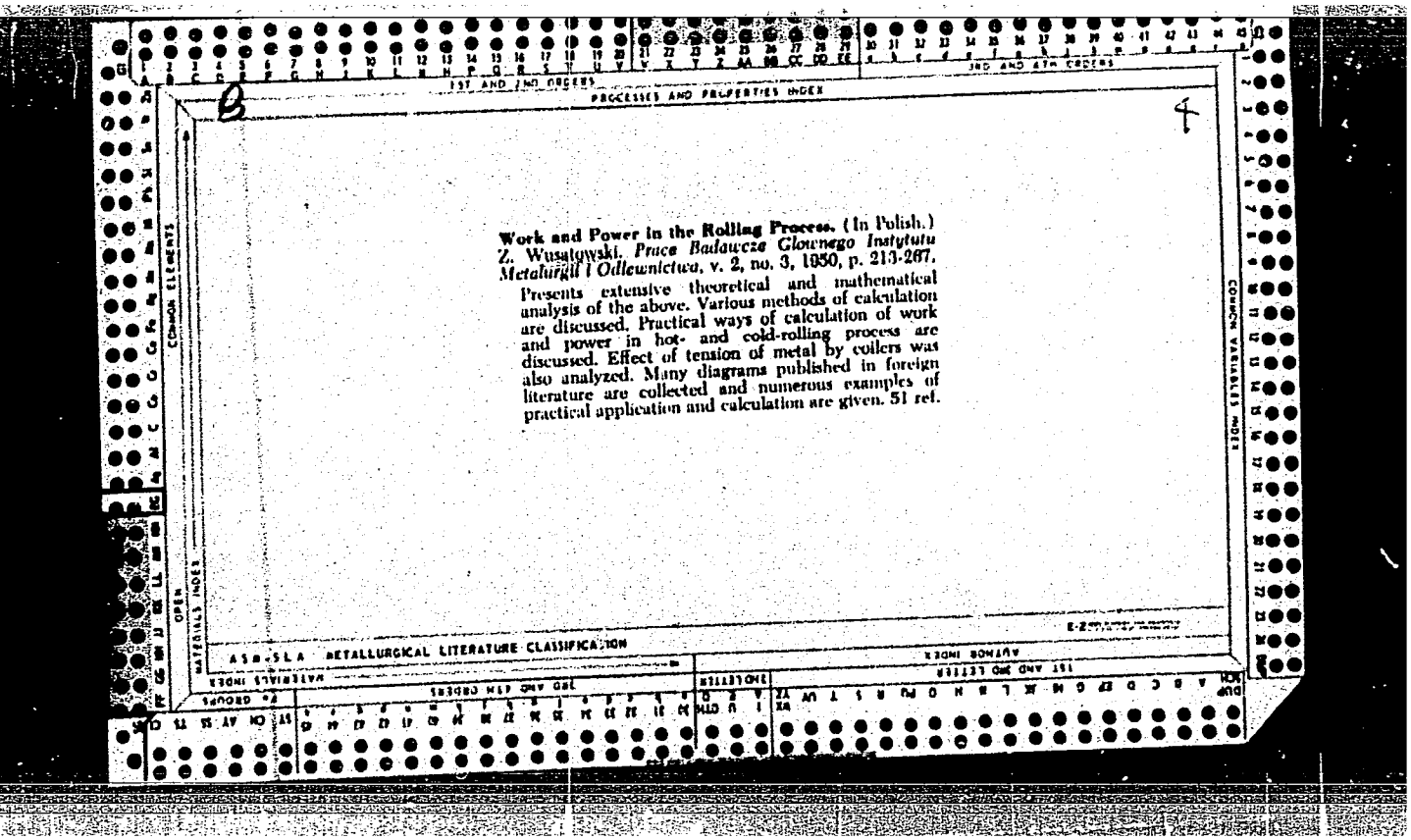

Work and Power in the Rolling Process. (In Polish.) Z. Wusatowski. *Prace Badawcze Glownego Instytutu Metalurgii i Odlewnictwa*, v. 2, no. 3, 1950, p. 213-267.

Presents extensive theoretical and mathematical analysis of the above. Various methods of calculation are discussed. Practical ways of calculation of work and power in hot- and cold-rolling process are discussed. Effect of tension of metal by coilers was also analyzed. Many diagrams published in foreign literature are collected and numerous examples of practical application and calculation are given. 51 ref.

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P. T. A.

669-122

503

Wusatowski Z. The Possibility of Avoiding Waste when Using Rolled Shapes.

„Możliwości oszczędnego wykorzystania wyrobów walcowanych". Hutnik. No. 9—10, 1950, pp. 310—320, 11 figs., 1 tab.

The proper way of applying tolerances in dimensions and in weights. Limiting and normalizing the number and dimensions of rolled shapes, and the problem of their rational forms. Goods with increased resistance produced through proper choice of chemical composition of steel, or through work-hardening. Light cold-rolled shapes

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Metallurgy

P.T.A.

669-122

504

Wusatowski Z. **Factors Influencing the Differences in Thickness of Rolled Sheets and Strips.**

„Czynniki wpływające na odchyłki grubości przy walcowaniu blach i taśm". Hutnik. No. 11--12, 1950, pp. 415--423. 9 figs.

Sections of rolled sheets and strips. Forces acting in a section during the process of rolling sheets and strips. Reaction of rolled metal on the rolls when rolling. Action of heat on the rolls, and the methods of cooling the rolls. Factors influencing the differences of the thickness of rolled sheets and strips.

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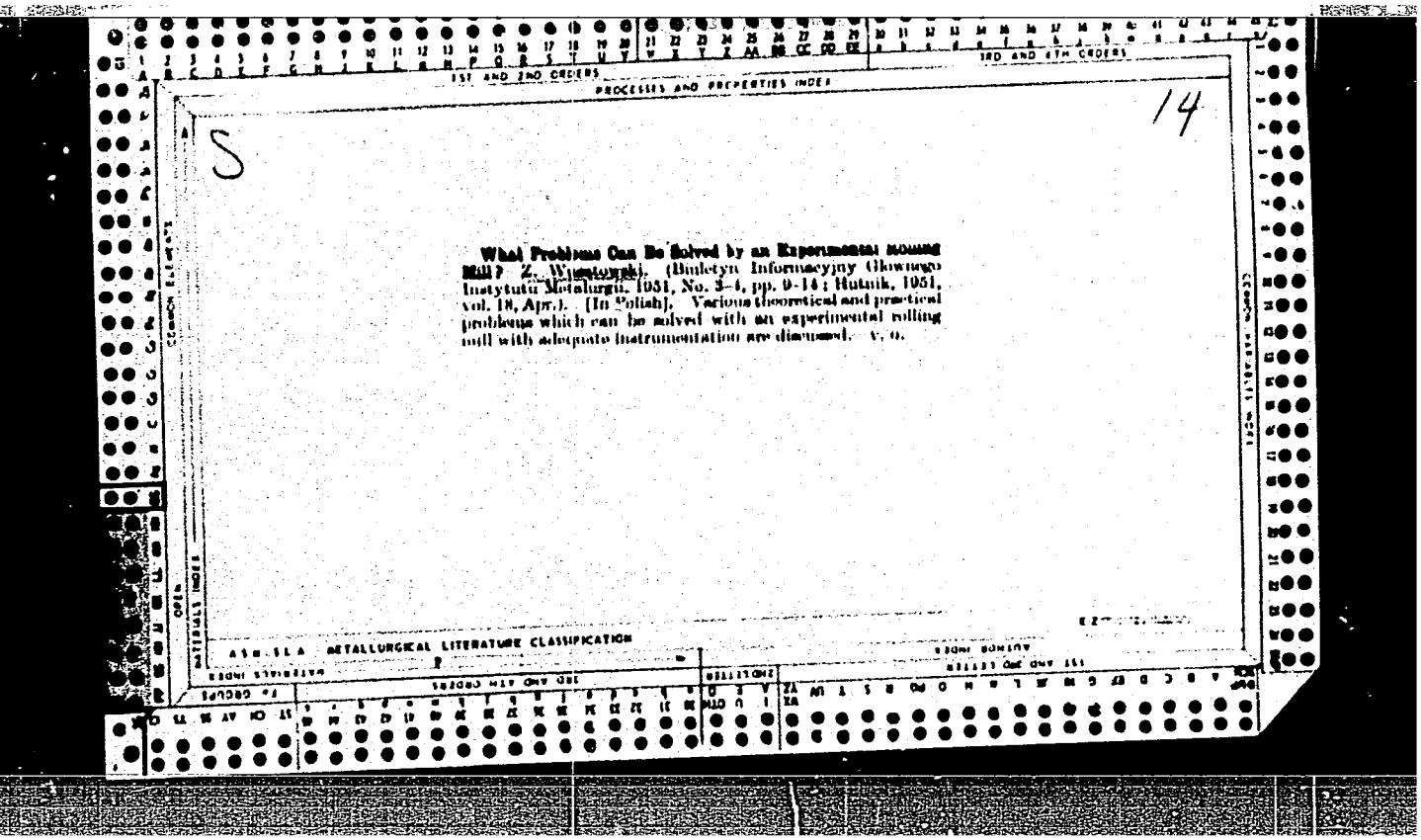

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

14

S

What Problems Can Be Solved by an Experimental Rolling Mill? Z. Wrzesiński. (Biuletyn Informacyjny Głównego Instytutu Metalurgii, 1951, No. 3–4, pp. 9–14; Hutnik, 1951, vol. 18, Apr.). [In Polish]. Various theoretical and practical problems which can be solved with an experimental rolling mill with adequate instrumentation are discussed. V. G.

A 54-54 A METALLURGICAL LITERATURE CLASSIFICATION

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Met. Abstracts

19

*Metal flow, Elongation, and Spread During Rolling of Regular Sections. Z. Wusatowski and A. Wojtylak (*Prace Głównego Inst. Met.*, 1951, 3, (1), 23–46).—[In Polish]. Equations for the detn. of metal flow during rolling of regular sections, derived by various investigators, are critically examined. Metal flow during rolling of regular sections, such as equal angles, tees, channels, and double-tees, was calculated with the use of Wusatowski's formula for the coeff. of elongation and spread and Lendl's formula for the coeff. of mean elongation of the total cross-section, these formulæ having been found to be in closest agreement with the experimental data presented. By redesigning rolls and grooves to give area reduction approaching the theoretical value for a single rolling pass, roll wear is reduced, rolling mill output is raised, and less power is consumed. Calculations are facilitated by a nomogram and a specially devised slide-rule. 19 ref.—A. G.

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MA

19

†**Critical Review of Recent Theories of Rolling.** Z. Wusatowski (*Prace Głównego Inst. Met.*, 1961, **3**, (5), 389–416).—[In Polish]. Recent theories of rolling are discussed in detail, with particular ref. to the work of Nadai, Tselikov, and Orowan. Nadai's and Orowan's theories allow for the variation in friction along the arc of contact of metal with the rolls, but only accurate measurements of roll pressure along the arc of contact will make the correct evaluation of these theories possible. Factors not taken into account by any of the theories include the spread of metal, the large elastic stresses occurring particularly in cold rolling under high pressure, the local effect of roll pressure on the metal, the effect of the rate of plastic deformation on the resistance to deformation, anisotropy of the rolled metal, flattening of the rolls due to compression, &c. Theoretical curves and experimental data are plotted and compared. 27 ref.
—A. G.

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WUSATOWSKI, Z.

(1) NT

Polish Technical Abst.
No. 1 1954
Metallurgy

2869 621.944.14

Wusatowski Z. The Calculation of Speed in the Rolling Process.

„Obliczanie szybkości w procesie walcowania". (Prace Inst. Metalurgii No. 1), Katowice, 1952, PWT, 44.5 pp., 21 figs., 7 tabs.

Determination of formulae and methods of calculating speed of rolling in working conditions. Existing theoretical assumptions of speed calculation, and the part played by forward- and back-slips in the rolling process, together with approximate formulae for determining the angle of the neutral plane, with particular reference to the formulae of Pavloff, Ekelund, Celikoff and Siebel and the more exact formulae of Bland and Ford. Practical methods of calculating the speed of rolling rectangular and irregular profiles, and formulae for speed calculation in continuous systems for rolling bars, sections, sheets and strips.

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WUSATOWSKI, Z.

Polish Technical Abstracts
No. 4, 1953
Metallurgy

6 met

2565 621.771.28 : 620.178.0

Wusatowski Z., Wojtylak A. Analysis of Metal Flow in Irregular and Asymmetric Sections.

„Analiza płynięcia metalu w kształtownikach nieregularnych i niesymetrycznych". (Prace Inst. Metalurgii No. 2), Katowice, 1952, PWT, 10.5 pp., 7 figs., 3 tabs.

In order to develop a method of controlling the suitability of the roll pass design for irregular and asymmetric sections, the authors examined Lendl's formula of coefficient of mean elongation of a total cross-section containing various elements, and the Wusatowski's formula of the coefficient of free elongation and spread. Checking calculations were made for light and heavy standard gauge rails, for a tramway rail and for a tie plate. The calculations given indicate that the method used for analysis of the metal flow applied for regular sections, is suitable also for irregular and asymmetric sections. Errors of calculation in relation to real values are found, to be within the limits of a few percent.

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WUSATOWSKI, Z.

Polish Technical Abst.
No. 1 1954
Metallurgy

2568 621.344.0713

Wusatowski Z., Wusatowski R. Possibilities of Mathematical Determination of Metal Flow in Regular Sections.

„Możliwości matematycznego określenia płynięcia metalu w profilach regularnych". (Prace Inst. Metalurgii No. 4) Katowice, 1952, 16.5 pp., 23 figs., 6 tabs.

Commonly used methods of calculating the mean draft in the rolling process and the authors' own method of calculating the mean height and draft, together with the adaptation of Z. Wusatowski's formula for calculating spread and elongation; it was found possible to determine mathematically the metal flow in regular sections. Checking the conclusions in practice.

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Wusatowski Z.

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✓ Analysis of metal flow in irregular and asymetric sections. Z. Wusatowski and A. Wojtylak (*Prace Inst. Metal.*, 1952, 4, 99–108).—Roll pass designs are computed for a light and heavy, standard gauge rail, for a tram rail, and for a tie plate. The designs

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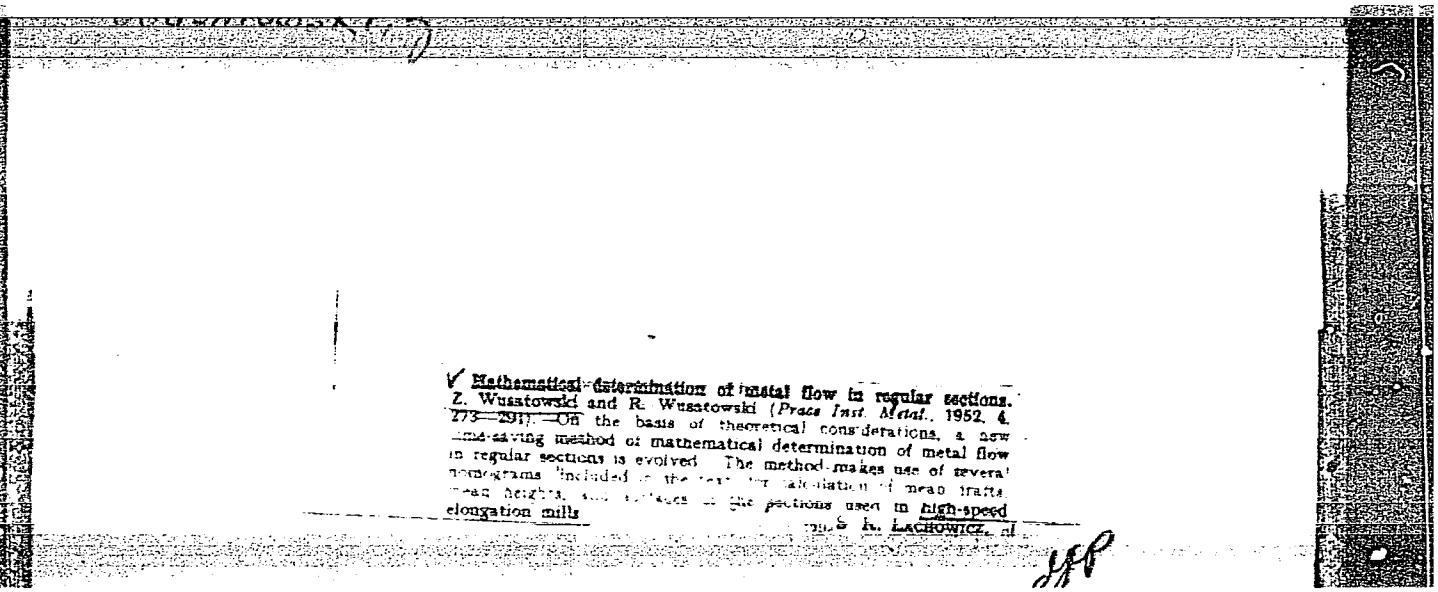

✓ **Mathematical determination of metal flow in regular sections.** Z. Wusatowski and R. Wusatowski (*Prace Inst. Metal.*, 1952, 4, 273—291).—On the basis of theoretical considerations, a new time-saving method of mathematical determination of metal flow in regular sections is evolved. The method makes use of several nomograms included in the text for calculation of mean drafts, mean heights, and surfaces of the sections used in high-speed elongation mills.

S. R. LACHOWICZ, al

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WUSATOWSKI, Z.

Polish Technical Abst.
No. 1 1954
Metallurgy

2573 669.14.018.264 : 621.771.8

Murski C., Wusatowski Z., Misiolek Z. Plating Soft Carbon Steel Sheets with Stainless Steel.

„Platerowanie blach z miękkich stali węglowych blachami kwasoodpornymi". (Prace Inst. Metalurgii No. 5), Katowice, 1952, PWT, 0.5 pp. 18 figs., 3 tabs.

This paper contains definitions of plated products, a review of commonly used production methods and examples of applying them. The authors discuss their own method of plating soft carbon steel sheets with stainless steel. This method is a variation on rolling in packets, the packeting being done not by means of interposing rods but with external packing by means of a strip. Investigations were conducted on thick sheets of rimmed carbon steel with about 0.15% C, plated with stainless steel sheets, of 18/8 type, titanium stabilised. It was assumed that if good results were obtained for these materials, then still more satisfactory results should be obtained from plating with other kinds of 18/8 type stainless steel. Individual operations described are: prepara-

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WUSATOWSKI, Z.

4

3952 621.944.145

Filasiewicz K., Wusatowski Z., Galanty A. Comparison of Calculation Methods for Roll Pressure in the Cold Rolling Process of Strips.

Porównanie metod obliczania nacisku walców w procesie walcowania taśm na zimno bez naciągu i przeciwciągu. (Prace Inst. Min. Hutnictwa No 2) Stalinogród 1953. PWT. 345 pp., 19 figs., 12 tabs.

Critical considerations of theoretical formulae and practical methods of calculating the roll pressure are given on the basis of a comparison of calculated values with measured pressures. The roll pressure values were taken from data published in technical literature. These considerations led to the assumption that the best results for the designer are obtained when calculating the roll pressure by the practical method of Sie[illegible] and the method recommended by SKF. The limitation of the present research work lies in the fact that the investigations were based on only a few cases of rolling, whereas for statistical value a large number of available cases are necessary. The only positive result of the work lays in its ascertaining that, by comparison with practical and simple methods, pure mathematical calculations lead to errors of the same order and in many cases to even greater ones. It was also proved, that as regards certain rolling processes not all methods and formulae are suitable for calculating the roll pressure, and that neither of the methods cited can be all rolling processes be applied for correct calculation of roll pressure. It is pointed out that none of the known methods and formulae take into consideration the influence of rolling speed on the value of roll pressure. Since this speed actually exists, however, it should be taken into consideration in a correct method of calculation.

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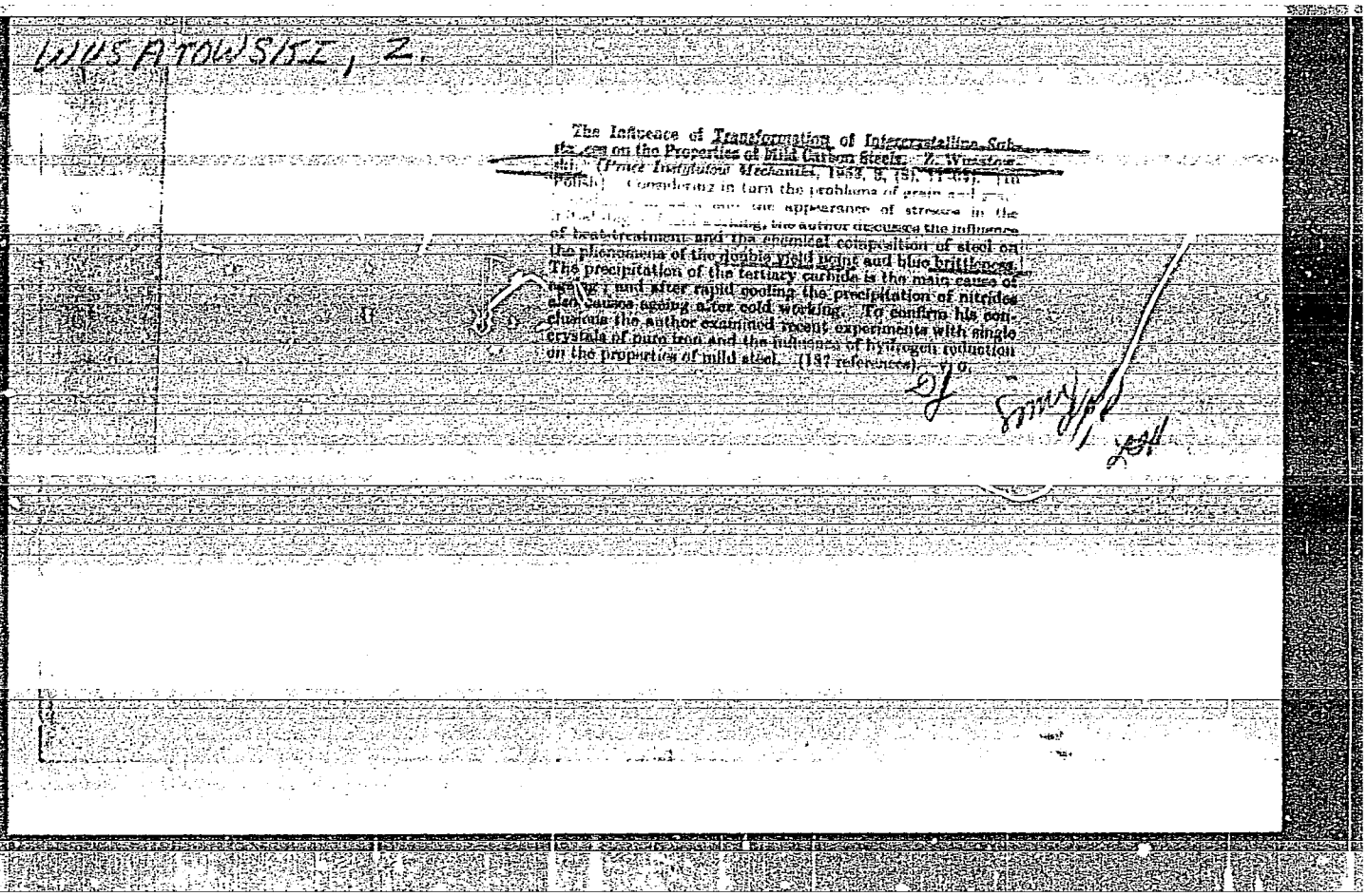

WUSATOWSKI, Z.

The Influence of Transformation of Intercrystalline Substances on the Properties of Mild Carbon Steels. Z. Wusatowski. (Prace Instytutow Mechaniki, 1953, 5, (8), 11-64). [In Polish] Considering in turn the problems of grain and [illegible] the appearance of stresses in the [illegible] the author discusses the influence of heat-treatment and the chemical composition of steel on the phenomena of the double yield point and blue brittleness. The precipitation of the tertiary carbide is the main cause of ageing; and after rapid cooling the precipitation of nitrides also causes ageing after cold working. To confirm his conclusions the author examined recent experiments with single crystals of pure iron and the influence of hydrogen reduction on the properties of mild steel. (137 references). — V. G.

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Comparison of Methods for Calculating the Roll Pressure in Cold Rolling Strips Without Tension or Back-Tension. K. Filasiewicz, Z. Wusatowski, and A. Galanty (*Prace Inst. Minist. Hutn.*, 1953, 5, (2), 57–81).—[In Polish]. The results obtained by the known methods of calculating roll pressures in cold rolling are compared with the experimental data available in the literature. The best results, from the point of view of a designer, are obtained by using Siebel's and S.K.F. methods. None of the methods reviewed takes into account the effect of rolling speed upon roll pressure, which an exact method should be able to predict.—S. K. L.

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WUSATOWSKI, Z.

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Rolling-Mill Practice

Comparison of Methods of Calculating Torque and Specific Rolling Power During Cold Rolling without Front or Back Tension. K. Filasiewicz, Z. Wusatowski, and A. Galanty. (*Prace Instytutów Ministerstwa Przemysłu*, 1953, 5, (4), 190-208). [In Polish]. The formulae usually applied and the method of calculating torque and specific rolling power during cold rolling without front or back tension are given. On the basis of data published in the technical literature concerning rolling in two-high, four-high and precision four-high stands, the torque and rolling power were determined using the above methods. Results by calculations and by measurements are compared.—V. G.

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